



# U.S. Land Mobile Retail Product Catalog

November 2017



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## Portables



# F3011 – F4011 Series

## Entry Level Analog Portables

### SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	10.6oz (with BP-232H)
Waterproof Rating:	IP54 dust and splash proof



### FEATURES

- Low battery alert with blinking LED & beep
- 3 Buttons
- Talk around function
- 3-color LED (red, green & orange)
- Time out timer
- 2-step power save

### SIGNALING

CTCSS / DTCS encode & decode

### COMES WITH

- Antenna (FA-SC55V or FA-SC57U)
- Battery (BP-232H)
- Belt Clip (MB-94)
- Rapid Charger (BC-160)
- Owner's manual
- Warranty: 2 years

**IP54**  
DUST PROTECTION  
& SPLASH PROOF



**OTTO**  
ACCESSORIES  
AVAILABLE

**MDC 1200**  
Compatible

**Icom America Inc.**

U.S. Land Mobile Retail: Product Catalog

# F3011 – F4011 Series

## Entry Level Analog Portables

### Configurations

Model	Description	MSRP
F3011 41 RC	136-174MHz radio with rapid charger in the box (BC-160)	\$240.00
F4011 41 RC	400-470MHz radio with rapid charger in the box (BC-160)	\$240.00
F4011 42 RC	450-512MHz radio with rapid charger in the box (BC-160)	\$240.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00

### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00

### Batteries

BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	\$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	\$35.00

### Belt Clips

AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	\$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	\$13.00
MB93	Swivel belt clip	\$11.00
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

# F3011 – F4011 Series

## Entry Level Analog Portables

### Accessories

Model	Description	MSRP
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF14 SWIVEL	Leather carrying case with a swivel F14/24 & F3011/4011 radios	\$50.00
NCF14 CLIP	Nylon carrying case with a clip F14/24 & F3011/4011 radios	\$27.00
<b>Chargers</b>		
AD106	Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery	\$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	\$23.00
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
BC197 22	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	\$90.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	\$145.00
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	\$44.00
<b>Manuals</b>		
94415491	F4011 CD service manual	\$50.22
94415494	F3011 CD service manual	\$17.12
97715490	F4011 service manual - hardcopy	\$21.88
97715493	F3011 service manual - hardcopy	\$21.61
98815492	F3011/4011 owner's manual	\$30.82
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00



# F3011 – F4011 Series

## Entry Level Analog Portables

### Accessories

Model	Description	MSRP
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	\$59.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	\$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	\$88.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	\$93.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Software &amp; Cables</b>		
CSF3011	F3011/4011 software	\$75.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Wire Kits</b>		
HM128L	Earphone/mic with 2-pin right angle connector	\$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F3001 – F4001 Series

## Entry Level Analog Portables

### SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	11.6oz (with BP-265)
Waterproof Rating:	IP54 dust and splash proof



### FEATURES

Low battery alert with blinking LED & beep  
3 Buttons  
Talk around function  
3-color LED (red, green & orange)  
Time out timer  
2-step power save  
Lone worker function

### SIGNALING

CTCSS / DTCS Encode/Decode  
2-Tone, 5-Tone  
MDC1200

- PTT ID
- Emergency Status

### COMES WITH

Charger (BC-193)  
Antenna (FA-SC55V or FA-SC57U)  
Battery (BP-265)  
Belt Clip (MB-124)  
Owner's manual  
Warranty: 2 years

**IP54**  
DUST PROTECTION  
& SPLASH PROOF



**OTTO**  
ACCESSORIES  
AVAILABLE

**MDC 1200**  
Compatible

# F3001 – F4001 Series

## Entry Level Analog Portables

### Configurations

Model	Description	MSRP
F3001 03 RC	136-174MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	\$198.00
F4001 03 RC	400-470MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	\$198.00
F4001 43 RC	450-512MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	\$198.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00

#### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00

#### Batteries

BP263	Battery case that holds 6 AA alkaline batteries	\$30.00
BP264	Ni-MH 7.2V 1400mAh	\$43.00
BP265	Li-ion 7.4V 1900mAh	\$62.00

#### Belt Clips

MB124	Alligator type belt clip	\$12.00
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#### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

#### Carrying Cases

LCF3000 SWIVEL	Leather carrying case with a swivel for the F3001/4001 & F3101D/4101D radios	\$50.00
NCF3000 CLIP	Nylon carrying case with a clip for the F3001/4001 & F3101D/4101D radios	\$27.00

# F3001 – F4001 Series

## Entry Level Analog Portables

### Accessories

Model	Description	MSRP
<b>Chargers</b>		
AD120	Adapter cup that fits into the BC197 02/03 for the BP264 NiMH battery	\$23.00
AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	\$23.00
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug	\$15.00
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug	\$16.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC191 12	110V rapid charger for radios with the NiMH BP264	\$67.00
BC191 13	220V Rapid charger for radios with the NiMH BP264	\$67.00
BC192 12	110V trickle charger for the NiMH BP264 (not CEC compatible for AM radios)	\$36.00
BC193	Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug	\$67.00
BC193E	Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug	\$67.00
BC197 02	Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 03	Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
BC197 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	\$510.00
BC197 51	110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed)	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC2004	Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80	\$27.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	\$145.00
<b>Manuals</b>		
94415602	F3001/4001 CD service manual	\$28.97
97715515	F4001 hard copy service manual	\$31.74
97715519	F3001 hard copy service manual	\$42.59
98815600	F3001/4001 owner's manual	\$17.12
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	\$59.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00

# F3001 – F4001 Series

## Entry Level Analog Portables

### Accessories

Model	Description	MSRP
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	\$48.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	\$93.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Software &amp; Cables</b>		
CSF3001	F3001/F4001 programming software	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Wire Kits</b>		
HM128L	Earphone/mic with 2-pin right angle connector	\$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F1000/S/T – F2000/S/T Series

## Entry Level Analog Portables

### SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16 or 128 (S/T)
Channel Spacing:	12.5kHz
Mil Spec:	MIL-STD 810 C,D,D,F,G,
Weight:	8.47oz (with BP-279)
Waterproof Rating:	IP67 dust-tight and waterproof protection
Versions:	With full keypad With simple keypad Without LCD and front keypad



### FEATURES

Enhanced emergency with built-in motion sensor  
Selective calling, quiet sand-by and more  
Channel announcement  
Built-in inversion voice scrambler  
8 DTMF autodial memories  
“Shift key” function increases number of programmable key assignments  
Surveillance function  
Escalating alarm

### SIGNALING

CTCSS / DTCS encode & decode  
Built-In 2-Tone, 5-Tone  
MDC1200 16 channel version

- PTT ID (transmit only)
- Emergency Call (transmit only)

MDC1200 S/T version

- PTT ID (Tx/Rx)
- Emergency (Tx/Rx)
- Radio check (Rx)
- Stun/revive (Rx)
- Transmit status message
- 100 alias table

### COMES WITH

Antenna (FA-SC55V or FA-SC57U)  
Battery pack (BP-279)  
Belt Clip (MB-133)  
Warranty: 2 years



# F1000/S/T – F2000/S/T Series

## Entry Level Analog Portables

### Configurations

Model	Description	MSRP
F1000 01	136-174MHz 16 CH, no display	\$210.00
F1000S 05	136-174MHz, 128 CH, LCD, 4-key	\$300.00
F1000T 09	136-174MHz, 128CH, LCD, full DTMF keypad.	\$330.00
F2000 01	400-470MHz 16 channel, no display	\$210.00
F2000S 05	400-470MHz, 128 CH, LCD, 4-key	\$300.00
F2000T 09	400-470MHz, 128 CH, LCD, full DTMF keypad	\$330.00
F2000 21	450-512MHz 16 CH, no LCD	\$210.00
F2000S 23	450-512MHz, 128 CH, LCD, 4-key	\$300.00
F2000T 25	450-512MHz, 128 CH, LCD, full DTMF keypad	\$330.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00

#### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50

#### Batteries

BP279	Li-ion 7.2V 1485mAh battery	\$70.00
BP280	Li-ion 7.2V 2280mAh battery	\$85.00

#### Belt Clips

MB133	Alligator type belt clip	\$17.00
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#### Cables

OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
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# F1000/S/T – F2000/S/T Series

## Entry Level Analog Portables

### Accessories

Model	Description	MSRP
<b>Carrying Cases</b>		
LCF1000S	Leather carrying case with a swivel for F1000/2000/D non display radios	\$50.00
LCF1000SS	Leather carrying case with a swivel belt loop and cutout for the display for the F1000S/2000S	\$50.00
LCF1000TS	Leather case for the F1000T/2000T with a full keypad cutout with a swivel loop	\$50.00
NCF1000C	Nylon carrying case with a clip for the F1000/2000/D non display radios	\$27.00
NCF1000SC	Nylon carrying case with a clip and cutout for the display F1000S/2000S	\$27.00
NCF1000TC	Nylon carrying case with a clip and cutout for the display and keypad F1000T/2000T	\$27.00
<b>Chargers</b>		
AD130	Adapter cup that fits into the BC214 for the F1000/D series	\$23.00
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC213	Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA included)	\$42.00
BC213NAC	Rapid charger cup for radios with the BP279 battery (BC-123S not included)	\$26.00
BC214	Six bank charger with US plug AC adapter and cups installed	\$495.00
BC214E	Six bank charger with EURO plug AC adapter and cups installed	\$495.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS94LWP	Earhook headset with boom microphone with 2-pin screw down connector for hands-free operation.	\$60.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS95LWP	Behind-the-head type with boom microphone with 2-pin screw down connector	\$290.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS4LA	PTT switch cable to communicate using the HS94/95/97	\$115.00
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Software &amp; Cables</b>		
CSF2000	Programming software for the F1000/2000 series	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00



# F1000/S/T – F2000/S/T Series

Entry Level Analog Portables

## Accessories

Model	Description	MSRP
<b>Wire Kits</b>		
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F1000D – F2000D Series

IDAS™ Entry Level Portables

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5 / 6.25kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	9.17oz (with BP-280)
Waterproof Rating:	IP67 waterproof and dust tight



## FEATURES

### General Features:

- IP67 waterproof and dust tight
- Lone worker function
- Channel announcement
- BTL amplifier for loud audio output
- DTMF autodial memories

### Digital Features:

- IDAS™ conventional
- IDAS™ single-site trunking
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- PTT ID (TX)
- Individual/group calls
- Radio check (RX)
- Stun/Kill/Revive (RX)
- Remote monitor (RX)
- Emergency (TX)
- Call alert (RX)
- Digital voice scrambler (15-bit)
- Status Call (Power ON/OFF status and GPS request)
- Voting scan for multi-site conventional operation TX: Transmit, RX: Receive

## SIGNALING (Analog Only)

CTCSS / DCS / DTMF encode & decode  
2/5 Tone encode & decode  
MDC1200: PTT ID & emergency call, radio check(RX) and stun/revive (RX)

## COMES WITH

Antenna (FA-SC55V, FA-SC57U or FA-SC72U)  
Battery (BP-280)  
Belt Clip (MB-133)  
Owner's manual  
Warranty: 2 years



# F1000D – F2000D Series

IDAS™ Entry Level Portables

## Configurations

Model	Description	MSRP
F1000D 01	136-174MHz 16 CH, no display, IDAS	\$370.00
F2000D 01	400-470MHz 16 channel, no display, IDAS	\$370.00
F2000D 12	450-512MHz, IDAS 16 CH, no display	\$370.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50

### Batteries

BP279	Li-ion 7.2V 1485mAh battery	\$70.00
BP280	Li-ion 7.2V 2280mAh battery	\$85.00

### Belt Clips

MB133	Alligator type belt clip	\$17.00
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### Cables

OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
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### Carrying Cases

LCF1000S	Leather carrying case with a swivel for F1000/2000/D non display radios	\$50.00
NCF1000C	Nylon carrying case with a clip for the F1000/2000/D non display radios	\$27.00

### Chargers

AD130	Adapter cup that fits into the BC214 for the F1000/D series	\$23.00
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# F1000D – F2000D Series

IDAS™ Entry Level Portables

## Accessories

Model	Description	MSRP
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC213	Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA included)	\$42.00
BC213NAC	Rapid charger cup for radios with the BP279 battery (BC-123S not included)	\$26.00
BC214	Six bank charger with US plug AC adapter and cups installed	\$495.00
BC214E	Six bank charger with EURO plug AC adapter and cups installed	\$495.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
<b>Headsets</b>		
HS94LWP	Earhook headset with boom microphone with 2-pin screw down connector for hands-free operation.	\$60.00
HS95LWP	Behind-the-head type with boom microphone with 2-pin screw down connector	\$290.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC2004LA	VOX conversion cable to to use the HS-97 for the F1000/D products	\$27.00
VS4LA	PTT switch cable to communicate using the HS94/95/97	\$115.00
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Software &amp; Cables</b>		
CSF2000D	Programming software for the F1000D/2000D	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Wire Kits</b>		
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F3201DEX – F4201DEX Series

IECEX/ATEX Intrinsically Safe IDAS VHF/UHF Portables

## SPECS

Frequencies:	136-174, 400-470
Output Power:	1W
Channels:	16
Channel Spacing:	12.5 / 6.25kHz
Mil Spec:	801 C, D, E, F, G
Scan:	Normal & Priority
Weight:	1.03lbs
Waterproof Rating:	IP67 dust-tight and water proof



## FEATURES

### General Features:

- IEC Certifications
  - Mining : Ex ib I Mb
  - Gas : Ex ib IIC T4 Gb
  - Dust : Ex ib IIIC T110°C Db
- ATEX Certifications
  - Mining : I M2 Ex ib I Mb
  - Gas : II 2G Ex ib IIC T4 Gb
  - Dust : II 2D Ex ib IIIC T110°C Db
- Channel announcement
- DTMF autodial
- Three programmable buttons
- Low electrical resistivity body
- Man down & lone worker (analog only)

### Digital Features:

- IDAS™ conventional
- IDAS™ single-site type-D trunking
- NXDN® Digital Air Interface

## SIGNALING

CTCSS / DCS / DTMF encode & decode (analog)  
2/5 Tone encode & decode (analog)  
MDC1200 PTT ID & Emergency

## COMES WITH

Antenna (FA-SC55V or FA-SC57U)  
Battery (BP-227EX)  
Belt Clip (MB-94EX)  
Charger (BC-212EX)  
Owner's Manual  
Warranty: 2 years



# F3201DEX – F4201DEX Series

IECEEx/ATEX Intrinsically Safe IDAS VHF/UHF Portables

## Configurations

Model	Description	MSRP
F3201DEX 14	136-174MHz ATEX intrinsically safe IDAS portable	\$1,250.00
F4201DEX 24	400-470MHz ATEX intrinsically safe IDAS portable	\$1,250.00

## Accessories

Model	Description	MSRP
<b>Antennas</b>		
FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
<b>Batteries</b>		
BP277EX	Li-ion 7.4V 1900mAh (typical capacity), 1800mAh (minimum value) blue battery	\$400.00
<b>Belt Clips</b>		
MB94EX	Blue alligator belt clip for F3201DEX/4201DEX	\$17.00
<b>Chargers</b>		
BC212EX	Rapid charger (includes BC213SA) for F3201DEX/4201DEX	\$130.00
<b>Microphones</b>		
HM203EX	Blue speaker microphone for F3201DEX/4201DEX	\$210.00
<b>Software &amp; Cables</b>		
CSF3101D/F5121D	F3101D/F5121D series programming software	\$72.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	\$189.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F3210D – F4210D Series

Entry Level IDAS™ Trunking Portables

## SPECS

Frequencies:	136-174, 400-470, 450-512
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	15 / 12.5 / 6.25kHz
Mil Spec:	810 C, D, E and -F
Scan:	Priority/Vote/Roaming scan
Weight:	11.3oz (with MB-124, BP-265)
Waterproof Rating:	IP54 dust and splash proof



## FEATURES

### General Features:

- 800mW loud audio output from the large 45mm speaker
- Channel announcement
- Internal VOX capability
- Low battery alert
- Time out timer
- Lone worker function
- 2-step power save
- Talk around function
- Surveillance function

### Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- PTT ID (TX)
- Block decode
- Radio check (RX)
- Call alert
- Emergency
- GPS (TX with HM-171GP)
- Individual/Group call
- RAN (Radio Access Number)
- Stun/kill/revive (RX)

## SIGNALING

CTCSS / DTCS encode & decode (analog only)

## COMES WITH

Antenna (FA-SC55V or FA-SC57U)

Battery (BP-265)

Charger (BC-193)

Belt Clip (MB-124)

Owner's manual

Warranty: 2 years

**IP54**  
DUST PROTECTION  
& SPLASH PROOF



**IDAS™**  
ICOM DIGITAL ADVANCED SYSTEM

# F3210D – F4210D Series

Entry Level IDAS™ Trunking Portables

## Configurations

Model	Description	MSRP
F3210D 01	136-174MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	\$485.00
F4210D 01	400-470MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	\$485.00
F4210D 21	450-512MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	\$485.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00

### Batteries

BP263	Battery case that holds 6 AA alkaline batteries	\$30.00
BP265	Li-ion 7.4V 1900mAh	\$62.00

### Belt Clips

MB124	Alligator type belt clip	\$12.00
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### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

### Chargers

AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	\$23.00
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00



# F3210D – F4210D Series

## Entry Level IDAS™ Trunking Portables

### Accessories

Model	Description	MSRP
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC193	Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug	\$67.00
BC193E	Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug	\$67.00
BC197 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	\$510.00
BC197 51	110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed)	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00

### Headsets

HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC2004	Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80	\$27.00

### Manuals

94416646	F3210D/4210D CD service manual	\$28.97
97716645	F3210D/4210D service manual hardcopy	\$32.33
98816644	F3210D/4210D owner's manual	\$17.12

### Microphones

HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM171GP	2-pin GPS mic for F3101D/4101D series	\$360.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	\$59.00
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00

### Software & Cables

CSF3210D	Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

### Wire Kits

HM128L	Earphone/mic with 2-pin right angle connector	\$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F3230D – F4230D Series

## IDAS Trunking Portables

### SPECS

Frequencies:	136-174, 400-470, 450-512
Output Power:	5W (VHF); 4W (UHF)
Channels:	128 channels / 8 zones
Channel Spacing:	12.5 / 6.25kHz
LCD Display:	8-character alphanumeric LCD
Mil Spec:	MIL 810G Also meets equivalent MIL-STD-810C, -D, -E and -F
Scan:	Roaming / Voting scan
Weight:	12oz (W/BP-232WP)
Waterproof Rating:	IP67 dust-tight and water proof



### FEATURES

#### General Features:

- Channel announcement
- Low battery alert
- 2-step power save
- Time out timer
- BTL amp with 1000mW audio output
- Lone worker function

#### Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Up to 500 individual and up to 500 group ID aliases (Each for single-site/multi-site/conventional)
- PTT ID and ANI
- SDM (Short Data Message)
- Status
- RAN (Radio Access Number)
- Radio check (RX)
- Call alert
- Remote monitor (RX)
- Digital voice scrambler
- ATB (All Trunks Busy) ring back

### SIGNALING

CTCSS / DTCS encode & decode (analog only)

### COMES WITH

Antenna (FA-SC55V, FA-SC57U or FA-SC72U)

Battery (BP-232WP)

Belt Clip (MB-94R)

Charger (BC-160)

Owner's manual

Warranty: 3 years



# F3230D – F4230D Series

## IDAS Trunking Portables

### Configurations

Model	Description	MSRP
F3230DS 13	136-174MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included.	\$575.00
F4230DS 13	400-470MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included.	\$575.00
F4230DS 32	450-512MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included.	\$575.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00

### Batteries

BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	\$75.00
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### Belt Clips

AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	\$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	\$13.00
MB93	Swivel belt clip	\$11.00
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

# F3230D – F4230D Series

## IDAS Trunking Portables

### Accessories

Model	Description	MSRP
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	\$50.00
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	\$27.00
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	\$25.00
<b>Chargers</b>		
AD106	Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery	\$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	\$23.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug	\$15.00
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug	\$16.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
BC197 22	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	\$44.00
<b>Manuals</b>		
94416677	F3230D CD service manual	\$28.97
94416679	Service manual CD for F4230D	\$28.97
97716676	Service manual hardcopy F3230D	\$47.08
97716678	Service manual hardcopy F4230D	\$53.73
98816675	Owner's manual F3230D/4230D	\$17.12
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
<b>Software &amp; Cables</b>		
CSF3210D	Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00

# F3230D – F4230D Series

IDAS Trunking Portables

## Accessories

Model	Description	MSRP
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Wire Kits</b>		
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	4W (UHF); 5W (VHF)
Channels:	128 With 8 memory banks
Channel Spacing:	12.5kHz
LCD Display:	8 Character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal & Priority
Weight:	9.9oz (with BP-227) (VHF) 10.0oz (with BP-227) (UHF)
Waterproof Rating:	IPX7 submersible (non V versions) & IP67 submersible (V versions)



## FEATURES

F50V/F60V Features:	Conventional analog 700mW AF power w/ BTL amplifier Lone worker function Low battery beep 17 scanning list memories Surveillance function
Voice/Vibrate Features:	Vibration alert function 8 Minute voice recorder Paging function (special firmware required)

## COMES WITH

Antenna (FA-S59V, FA-S27U or FA-S56U)  
Battery (BP-227)  
Belt Clip (MB-98)  
Owner's manual  
Warranty: 2 years

## SIGNALING

CTCSS / DTCS Encode/Decode

Built-In 2-Tone, 5-Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

MDC1200

- PTT ID, Radio check, Caller ID
- Call alert, Selcall
- Emergency, emergency mic monitoring
- Stun/revive, Status/message
- 500 aliases



**IPX7**



Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

# F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

## Configurations

Model	Description	MSRP
F50V 01	136-174MHz waterproof radio	\$513.00
F50V 11	136-174MHz waterproof radio with voice and vibrate features	\$620.00
F60V 16	450-512MHz waterproof radio	\$513.00
F60V 18	450-512MHz waterproof radio with voice and vibrate features	\$554.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00

### Antennas

AD92SMA	Antenna connector adapter to connect a BNC-type antenna	\$20.00
CEN EXD 400 SMI	400-420MHz stubby antenna for the F60/V portable radios	\$14.50
CEN EXD 450 SMI	450-470MHz stubby antenna for F60/V portable radios	\$20.00
CEN EXS 150 SMI	150-160MHz stubby antenna for F50/V & M88 handheld radios	\$16.00
FAS24V	136-150MHz antenna for the F50 & M88 handhelds (Blue ring)	\$12.50
FAS27U	400-470MHz antenna for the F60/V (green ring)	\$13.00
FAS56U	450-520MHz antenna for F60/V (red ring)	\$13.00
FAS57US	450-490MHz stubby antenna for F60/V portable radios (red ring)	\$16.00
FAS59V	150-174MHz standard antenna for the F50 & M88 (red ring)	\$13.00
FAS62VS	150-162MHz stubby antenna for F50/V (Red ring)	\$16.00
FAS63VS	160-174MHz stubby antenna for F50/V (green ring)	\$16.00
FAS74U	490-520MHz antenna for F60/V (blue ring)	\$12.50

### Batteries

BP226	Battery case holds 5 AA alkaline batteries for the F50/F60 & M88	\$50.00
BP227	Li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value); waterproof	\$110.00

### Belt Clips

MB86	Swivel belt clip that screws into back of radio	\$11.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
MB98	Standard belt clip for the F50/60 & M88	\$13.00

### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

### Carrying Cases

AW F50 AREA 51	Water repellant case with a swivel belt clip for the F50/60 & M88	\$35.00
LCF50 LOOP	Leather carrying case with a loop and cutout for the display	\$38.00
LCF50 SWIVEL	Leather carrying case with a loops swivel and cutout for the display	\$50.00
NCM88	Nylon carrying case with a clip for the F50/60 & M88 radios	\$26.00

# F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

## Accessories

Model	Description	MSRP
<b>Chargers</b>		
AD100	Adapter cup to install in the BC119N or BC121N for the F50/60 & M88 radios	\$27.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug	\$76.00
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug	\$15.00
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug	\$16.00
BC152N 11	F50/F60/M88 desktop trickle charger (requires BC-147)	\$42.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC190 01	Sensing rapid charger for F50/60 radios; 100-240V with a US style plug	\$80.00
BC190 02	Sensing rapid charger for F50/60 radios; 100-240V with a Euro style plug	\$85.00
BC197 37	6-Unit Charger Kit BC197 + BC157S + AD128 x 6 for F50/F60/M88	\$580.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	\$155.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	\$68.00
<b>Manuals</b>		
94415358	F60V CD service manual	\$16.95
94415376	F50V CD service manual	\$31.86
97715317	F50V service manual - hardcopy	\$46.64
97715356	F60V service manual - hardcopy	\$36.35
98815318	F50V/60V owner's manual	\$8.56
<b>Microphones</b>		
HM131SC	Speaker/microphone with earphone jack and clip (9-pin)	\$79.00
HM138	Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80)	\$130.00
HM169	Waterproof speaker mic (9-pin)	\$105.00
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	\$76.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
OTTO V210272	Genesis waterproof mic with removable front grill cover. Mic output -44dBV. Nine pin connector	\$180.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00



# F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

## Accessories

Model	Description	MSRP
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI9	RedHawk 9-pin cable connects GPS mic to radio (works in analog only)	\$99.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Software &amp; Cables</b>		
CSF50	F50/F60 Program Software	\$75.00
CSF50V	F50V Program Software	\$72.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	\$168.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Wire Kits</b>		
KLEIN DOUBLE AGENT-S8	2-Wire Kit D-Ring Earloop for F50/F60	\$70.00
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	\$125.00

# F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W
Channels:	512 / 128 zones
Channel Spacing:	12.5 kHz; 6.25kHz (D versions)
LCD Display:	Full dot-matrix
Programmable Keys:	8
Mil Spec:	810 C, D, E, F
Scan:	Normal & priority
Weight:	12oz (with BP-232H)
Waterproof Rating:	IP55 dust and spraying water protection
Version:	Analog and digital upgradable Analog and digital ready

“D” Signifies IDAS Ready



## FEATURES

### General Features

- Basic LTR® / conventional analog
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function (temp. turns LEDs off)

### Digital Features

- IDAS™ conventional
- IDAS multi-site conventional
- IDAS multi-site and single-site type-D trunking Voting mode scanning
- Digital/analog mixed mode
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

## COMES WITH

Antenna (FA-SC55V or FA-SC57U)  
Battery (BP-232H)  
Belt clip (MB-94)  
Owner's manual  
Warranty: 3 years

## SIGNALING

MDC1200 (analog & LTR)  
CTCSS/DCS encode & decode  
DTMF decode  
2/5 tone encode/decode  
PassPort® (F4161S 56 only)

## ENCRYPTION

Inversion scrambler built-in  
Simple Inversion: UT-109R 32 Codes  
Rolling Code: UT-110R 1020 Codes

MULTITRUNK



**IP55**  
DUST & SPRAYING  
WATER PROTECTION



**OTTO**  
ACCESSORIES  
AVAILABLE

**MDC 1200**  
Compatible

**IDAS™**  
ICOM DIGITAL ADVANCED SYSTEM

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

# F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

## Configurations

Model	Description	MSRP
F3161S 56	136-174MHz analog only radio, no DTMF keypad	\$578.00
F3161T 46	136-174MHz analog only radio, full DTMF keypad	\$602.00
F4161S 21	400-470MHz analog only radio, no DTMF keypad	\$578.00
F4161S 56	450-512MHz analog only radio, no DTMF keypad	\$578.00
F4161T 46	450-512MHz analog only radio, full DTMF keypad	\$602.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00
RR FIRMWARE UPGRADE	Add 3.1 RR firmware to your IDAS radio	\$16.66

### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00

### Batteries

BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	\$75.00
BP232N FM	Intrinsically safe li-ion 7.4V 2000mAh (typical capacity), 1900mAh (minimum value) F3161/4161 IS series	\$145.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	\$35.00

### Belt Clips

AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	\$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	\$13.00
MB93	Swivel belt clip	\$11.00

# F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

## Accessories

Model	Description	MSRP
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF3061S CLIP	Leather carrying case with a clip and cutout for display only F3161/4161 series	\$45.00
LCF3061S SWIVEL	Leather case for the F3161/4161 with a swivel clip	\$50.00
LCF3061T SWIVEL	Leather case for the F3161/4161 with a full keypad cutout with a swivel belt clip	\$50.00
NCF3061S LOOP	Nylon case with a loop for the F3161S/4161S radios without a DTMF cutout	\$25.00
NCF3061T CLIP	Nylon carrying case with a clip for the F3161T/4161T radios with a full keypad	\$27.00
NCF3061T LOOP	Nylon carrying case with a loop for the F3161T/4161T radios with a full keypad	\$25.00
<b>Chargers</b>		
AD106	Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery	\$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	\$23.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug	\$76.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug	\$15.00
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug	\$16.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
BC197 22	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
IA-BC171	Heavy duty vehicular charger for the F3161/F4161 series	\$375.00
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	\$215.00
<b>Encryption &amp; Internal Modules</b>		
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00
UT124R 02	Man down unit	\$90.00
UT126H 03	6.25kHz digital module for F3161/4161 or F5061/6061 radios	\$250.00

# F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

## Accessories

Model	Description	MSRP
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	\$155.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	\$68.00
<b>Manuals</b>		
94415081	F3161/4161/D & F3061/4061 CD service manual	\$28.97
97715082	F3161/D service manual-hardcopy	\$108.63
97715154U	F4161/D service manual-hardcopy	\$191.65
98815083	F3161/4161/D & F3061/4061 owner's manual	\$6.93
<b>Microphones</b>		
HM131SC	Speaker/microphone with earphone jack and clip (9-pin)	\$79.00
HM159SC LG	Large speaker microphone with earphone jack and metal alligator clip (9-pin, stereo mic/mono speaker)	\$92.00
HM169	Waterproof speaker mic (9-pin)	\$105.00
HM169 IS	Intrinsically safe waterproof speaker mic (9-pin)	\$145.00
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	\$76.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Miscellaneous</b>		
AD52	Earphone adapter for the F3161/F4161/F30G/M88	\$25.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI9	RedHawk 9-pin cable connects GPS mic to radio (works in analog only)	\$99.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Software &amp; Cables</b>		
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	\$72.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	\$168.00
PROGLM6789	Icom to program your radio or IAS product	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

## Accessories

Model	Description	MSRP
<b>Wire Kits</b>		
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	\$125.00

# F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W
Channels:	512 / 128 zones
Channel Spacing:	12.5 & 6.25kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	14.1oz (with BP-232WP)
Waterproof Rating:	IP67 submersible & dust protection



## FEATURES

### General Features

- Basic LTR® / Conventional / IDAS
- GPS built-in
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function temporarily turns off the LED backlight and beep sound
- Detects both analog & IDAS conventional signals and automatically selects the transmission mode to reply to received call

### Digital Features

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search

## COMES WITH

Antenna (FA-SC55V or FA-SC57U)  
Battery (BP-232WP)  
Belt clip (MB-94R)  
Owner's manual  
Warranty: 3 years

## SIGNALING

MDC1200 (analog & LTR)  
CTCSS/DCS encode & decode  
DTMF decode  
2/5 tone encode & decode

## ENCRYPTION

Inversion scrambler built-in. Digital voice scrambler provides 15-bit key (about 32K codes)



MULTITRUNK



# F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

## Configurations

Model	Description	MSRP
F3261DS 55	136-174MHz waterproof IDAS radio with GPS, no DTMF keypad	\$800.00
F3261DT 40	136-174MHz waterproof IDAS radio with GPS, full DTMF keypad	\$845.00
F3261DT 35 RR	Railroad specific version: 136-174MHz 512 channel, IDAS waterproof portable radio with a DTMF keypad and GPS. Special railroad firmware installed.	\$880.00
F4261DS 65	400-470MHz waterproof IDAS radio with GPS, no DTMF keypad	\$800.00
F4261DT 55	400-470MHz waterproof IDAS radio with GPS, full DTMF keypad	\$845.00
F4261DS 90	450-512MHz waterproof IDAS radio with GPS, no DTMF keypad	\$800.00
F4261DT 85	450-512MHz waterproof IDAS radio with GPS, full DTMF keypad	\$845.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00

### Batteries

BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	\$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	\$35.00

### Belt Clips

MB93	Swivel belt clip	\$11.00
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00



# F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

## Accessories

Model	Description	MSRP
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF3261S SWIVEL	Leather carrying case with a swivel clip and cutout for the display for F3261	\$50.00
LCF3261T SWIVEL	Leather carrying case with a swivel clip and cutout for the DTMF keypad for F3261 series	\$50.00
NCF3261S CLIP	Nylon carrying case with a clip and cutout for the display for F3261 series	\$27.00
NCF3261T CLIP	Nylon carrying case with a clip and cutout for the DTMF keypad for F3261 series	\$27.00
<b>Chargers</b>		
AD106	Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery	\$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	\$23.00
AD99N	Spacer for the AD94 adapter cup	\$6.40
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
BC197 22	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	\$215.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	\$84.00
VS4MC	Cable with heavy duty PTT swith with 14-pin connector. Use with HS94/HS95/HS97.	\$150.00
<b>Manuals</b>		
94416576	F3261/4261 CD service manual	\$16.95
97716573	F3261/4261 hardcopy service manual	\$42.12
98816575	F3261/4261 owner's manual	\$27.39
<b>Microphones</b>		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM-HD7I6WP	Large waterproof speaker microphone with 3.5mm accessory jack(14-pin connector)	\$120.00

# F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

## Accessories

Model	Description	MSRP
IMPACT HD3-I6	Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector)	\$98.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Miscellaneous</b>		
AD118	14-pin ACC adapter to use with Hirose plug accessories	\$80.00
<b>Software &amp; Cables</b>		
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	\$72.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	\$189.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	\$125.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F3360D – F4360D Series

Waterproof Analog, IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

## SPECS

Frequencies:	136-174, 400-470MHz
Output Power:	5W
Channels:	512 / 128 zones
Channel Spacing:	12.5 & 6.25kHz
Mil Spec:	810 C, D, E & F
Scan:	Normal & priority
Weight:	14.1oz (with BP-232WP)
Waterproof Rating:	IP67 submersible & dust protection



## FEATURES

### General Features

- Analog & digital conventional / IDAS mixed mode
- Built-in GPS
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function temporarily turns off the LED backlight and beep sound
- Detects both analog & IDAS conventional signals and automatically selects the transmission mode to reply to received call

### Digital Features

- IDAS™ conventional
- IDAS Type C trunking
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Transparent data
- 64 Radio Access Numbers (RAN)
- 1 site and multi-site individual & group call
- Strongest site search
- Forced site search

## COMES WITH

Antenna (FA-SC55V or FA-SC57U)  
Battery (BP-232WP)  
Belt clip (MB-94R)  
Owner's manual  
Warranty: 3 years

## SIGNALING

MDC1200  
CTCSS/DCS encode & decode  
DTMF decode

## ENCRYPTION

Inversion scrambler built-in. Digital voice scrambler provides 15-bit key (about 32K codes)



# F3360D – F4360D Series

Waterproof Analog, IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

## Configurations

Model	Description	MSRP
F3360DS 11	136-174MHz waterproof IDAS radio with GPS, 512CH, 4-key	\$850.00
F4360DS 12	400-470MHz waterproof IDAS radio with GPS, 512CH, 4-key	\$850.00
F4360DT 01	400-470MHz waterproof IDAS radio with GPS, 512CH, full DTMF keypad	\$895.00

## Accessories

Model	Description	MSRP
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00

### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00

### Batteries

BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	\$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	\$35.00

### Belt Clips

MB93	Swivel belt clip	\$11.00
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

# F3360D – F4360D Series

Waterproof Analog, IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

## Accessories

Model	Description	MSRP
<b>Carrying Cases</b>		
LCF3261S SWIVEL	Leather carrying case with a swivel clip and cutout for the display for F3261	\$50.00
LCF3261T SWIVEL	Leather carrying case with a swivel clip and cutout for the DTMF keypad for F3261 series	\$50.00
NCF3261S CLIP	Nylon carrying case with a clip and cutout for the display for F3261 series	\$27.00
NCF3261T CLIP	Nylon carrying case with a clip and cutout for the DTMF keypad for F3261 series	\$27.00
<b>Chargers</b>		
AD106	Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery	\$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	\$23.00
AD99N	Spacer for the AD94 adapter cup	\$6.40
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
BC197 22	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	\$215.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	\$84.00
VS4MC	Cable with heavy duty PTT switch with 14-pin connector. Use with HS94/HS95/HS97.	\$150.00
<b>Microphones</b>		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM-HD7I6WP	Large waterproof speaker microphone with 3.5mm accessory jack(14-pin connector)	\$120.00
IMPACT HD3-I6	Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector)	\$98.00
<b>Miscellaneous</b>		
AD118	14-pin ACC adapter to use with Hirose plug accessories	\$80.00
<b>Software &amp; Cables</b>		
CSF3360D/F5360D	Programming software for the F3360D & F5360D series	\$90.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	\$189.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	\$125.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	\$110.00
OPC2338	14-pin programming cable plus transparent data transfer	\$235.00

## F3360D – F4360D Series

Waterproof Analog, IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

### Accessories

Model	Description	MSRP
OPC2344	Modular connector programming cable plus Type-C NXDN transparent data transfer for F5360D/4360D	\$135.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F52D/F62D Series

Analog & IDAS Digital Compact Waterproof Portables

## SPECS

Frequencies:	136-174, 380-470, 450-512MHz
Output Power:	5W
Channels:	512 w/128 zones
Display:	14 character full dot-matrix w/status icons
Mil Spec:	C, D, E, F & G
Scan:	Normal, priority & dual priority
Waterproof Rating:	IP67
Weight:	8.1oz



## GENERAL FEATURES

- Voice recording/playback (up to 8 minutes)
- Programmable vibration alert
- Bluetooth™ built-in
- Voice announcement (channel number and zone)
- Backlit LCD and buttons
- 20-position rotary selector and ON/OFF volume knob
- Emergency key
- Man down function
- Lone worker function

## IDAS FEATURES

- IDAS™ conventional
- IDAS™ single-site and multi-site TYPE-D trunking option
- AMBE+2™ vocoder
- Analog/digital mixed operation
- Over-the-Air Programming with manager software
- Over-the-Air Alias (OAA) sends own name with a call
- Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air (Type-D trunking)
- Individual, group call
- Status call and polling
- Short data message
- Transparent data mode

## COMES WITH

- Battery (BP-290)
- Belt Clip (MMB-3)
- Owner's manual
- Warranty: 3-Year

## Analog Signaling

- 2-tone, CTCSS, DTCS tone
- MDC functions
- DTMF autodial

## ENCRYPTION

- Digital voice scrambler (low level encryption)
- Analog voice scrambler (inversion)

# F52D/F62D Series

## Analog & IDAS Digital Compact Waterproof Portables

### Configurations

Model	Description	MSRP
F52D	136-174MHz compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately.	\$680.00
F62D 11	400-470MHz compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately.	\$680.00
F62D 21	450-512MHz compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately.	\$680.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00
ISL-AK25K	Add 25kHz into the radio	\$13.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

#### Antennas

FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC26VS	136-144MHz stubby antenna for LM portables	\$14.50
FASC27VS	142-150MHz stubby antenna for LM portables	\$14.50
FASC28V	142-162MHz antenna for LM portables	\$13.00
FASC29V	160-174MHz antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50

#### Batteries

BP290	2010mAh li-ion battery	\$105.00
BP291	Battery case 5 x AA	\$50.00

#### Belt Clips

MB136	Swivel belt clip for F1000/F3400/F7010 series	\$15.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
MBB3	Standard belt clip	\$16.00

#### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
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# F52D/F62D Series

Analog & IDAS Digital Compact Waterproof Portables

## Accessories

Model	Description	MSRP
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Chargers</b>		
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC214-1	Six gang charger for F3400 series (includes AC adapter with US plug)	\$510.00
BC214-1E	Six gang charger for F3400 series (includes AC adapter with Euro plug)	\$510.00
BC219N	Rapid charger for F52D/F62D; 100-240V with a US style plug	\$67.00
BC225	Smart rapid charger; 100-240V with a US style plug	\$135.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS3	Bluetooth pendant earpiece microphone w/PTT	\$149.00
VS5MC	VOX/PTT switch cable to use with headset (HS94/95/97)	\$150.00
<b>Microphones</b>		
EH15B	Earphone with 2.5mm plug to use with HM-163MC	\$30.00
HM163MC	Lapel mic with 2.5mm earphone jack	\$200.00
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM222	IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector)	\$145.00
HM233GP	GPS microphone IP67	\$285.00
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00
SP28	Earhook type earphone with 2.5mm plug to use with HM-163MC	\$25.00
SP29	Earhook type earphone with 3.5mm plug	\$25.00
SP32	Tube adapter for use with the EH-15B	\$30.00
SP40	Earphone with 3.5mm plug	\$30.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Miscellaneous</b>		
AD118	14-pin ACC adapter to use with Hirose plug accessories	\$80.00
AD135	3.5mm earphone jack adapter that plugs into a 14-pin connector	\$42.00
<b>Software &amp; Cables</b>		
CSF52D	F52D/F62D programming software	\$100.00
CSOTPM1	Over-the-air programming (OTAP) manager software	\$520.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	\$189.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	\$125.00
OPC2338	14-pin programming cable plus transparent data transfer	\$235.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
RSBC225	Battery management software for the BP-283/284. Can connect up to 30 BC-225 chargers to it.	\$250.00

# F52D/F62D Series

Analog & IDAS Digital Compact Waterproof Portables

## Accessories

Model	Description	MSRP
<b>Trunking</b>		
ISL-UGMTR	Type D trunking license for single and multi-site trunking	\$125.00

# F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

## SPECS

Frequencies:	136-174, 380-470, 450-512MHz
Output Power:	5W
Channels:	32 channels w/2 zones (F3400D), 1024 channels w/128 zones (F3400DS/DT)
Channel Spacing:	12.5 & 6.25kHz
Mil Spec:	C, D, E, F, G
Weight:	6.4oz (main unit without battery pack and antenna)
Waterproof Rating:	IP68
Versions:	With full keypad With simple keypad Without LCD and front keypad



## FEATURES

### General Features

- Basic LTR® / Conventional / IDAS
- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- High-resolution color LCD
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Man down, motion detection, stationary detection, lone worker and power OFF emergency
- AquaQuake™
- Audio equalizer\*

### Digital Features

- IDAS™ conventional
- IDAS single-site and multi-site Type D trunking (optional upgrade)
- IDAS single-site and multi-site Type C trunking (optional upgrade)\*
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Individual & group selective call
- Strongest site search
- Over-the-Air Programming (requires software & license)\*

## COMES WITH

Battery Pack (BP-283)  
Belt clip (MB-133)  
Antenna & charger purchased separately  
Owner's manual  
Warranty: 3 years

## ANALOG SIGNALING

2-tone, 5-tone, CTCSS and DTCS built-in  
DTMF autodial and DTMF decode  
MDC1200 compatible

## ENCRYPTION

AES/DES UT-134  
Over-the-Air Rekeying (requires license)\*

\*Future Availability



MULTITRUNK



# F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

## Configurations

Model	Description	MSRP
F3400D 21	136-174MHz IDAS portable with 32 channels and no display. Purchase antenna and charger separately.	\$795.00
F3400DS 11	136-174MHz IDAS portable with 1024 channels and a color display. Purchase antenna and charger separately.	\$900.00
F3400DT 01	136-174MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately.	\$960.00
F4400D 21	380-470MHz IDAS portable with 32 channels and no display. Purchase antenna and charger separately.	\$795.00
F4400DS 11	380-470MHz IDAS portable with 1024 channels, and a color display. Purchase antenna and charger separately.	\$900.00
F4400DT 01	380-470MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately.	\$960.00
F4400D 51	450-512MHz IDAS portable with 32 channels and no display. Purchase antenna and charger separately.	\$795.00
F4400DS 41	450-512MHz IDAS portable with 1024 channels and a color display. Purchase antenna and charger separately.	\$900.00
F4400DT 31	450-512MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately.	\$960.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00
ISL-AK25K	Add 25kHz into the radio	\$13.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

### Antennas

FAS67VC	136-174MHz cut antenna - F3400/F9011	\$30.00
FAS76UC	380-520MHz cut antenna for F4400/F9021	\$30.00
FAS81U	380-430MHz antenna for F4400	\$17.00
FAS81US	400-450MHz stubby antenna for F4400	\$17.00
FAS81V	136-150MHz antenna for F3400	\$17.00
FAS81VS	136-150MHz stubby antenna for F3400	\$17.00
FAS82U	430-480MHz antenna for F4400	\$17.00
FAS82US	450-490MHz stubby antenna for F4400	\$17.00
FAS82V	148-162MHz antenna for F3400	\$17.00
FAS82VS	150-162MHz stubby antenna for F3400	\$17.00
FAS83U	470-520MHz antenna for F4400	\$17.00
FAS83V	160-174MHz antenna for F3400	\$17.00
FAS83VS	160-174MHz stubby antenna for F3400	\$17.00

### Batteries

BP283	Li-ion 7.4V 2010mAh (typical capacity), 1910mAh (minimum value)	\$115.00
BP284	Li-ion 7.4V 3210mAh (typical capacity), 3070mAh (minimum value)	\$175.00

# F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

## Accessories

Model	Description	MSRP
<b>Belt Clips</b>		
MB133	Alligator type belt clip	\$17.00
MB136	Swivel belt clip for F1000/F3400/F7010 series	\$15.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF1034SW	Leather case with swivel belt loop and D-ring; no display cutout for the F3400D	\$45.00
LCF1035SW	Leather case with swivel belt loop and D-ring; display cutout for the F3400DS & F7010S	\$45.00
NCF1034C	Nylon case with metal clip without display cutout for the F3400D	\$27.00
NCF1035C	Nylon case with metal clip with display cutout; F3400DS/F7010S	\$27.00
NCF1036C	Nylon case with metal clip with full keypad cutout; F3400DT/F7010T	\$27.00
<b>Chargers</b>		
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC214-1	Six gang charger for F3400 series (includes AC adapter with US plug)	\$510.00
BC214-1E	Six gang charger for F3400 series (includes AC adapter with Euro plug)	\$510.00
BC219	Rapid charger for radios with the BP283/BP284; 100-240V with a US style plug	\$67.00
BC219E	Rapid charger for radios with the F3400 series; 100-240V with a Euro style plug	\$67.00
BC225	Smart rapid charger; 100-240V with a US style plug	\$135.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
SS BC62	Mobile rapid charger with cigarette adapter for the F3400 & F7010 series	\$215.00
<b>Encryption &amp; Internal Modules</b>		
CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 series	\$600.00
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
ISL-AKAES	AES activation code for F3400/F5400 series	\$360.00
UT134	AES/DES encryption board for F3400/F5400 & F7010/F7510 series	\$185.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	\$84.00
VS4MC	Cable with heavy duty PTT switch with 14-pin connector. Use with HS94/HS95/HS97.	\$150.00
<b>Microphones</b>		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM222	IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector)	\$145.00

# F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

## Accessories

Model	Description	MSRP
IAHM600	Wireless speaker microphone, which includes charger and charging cable	\$215.00
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00
SP29	Earhook type earphone with 3.5mm plug	\$25.00
SP40	Earphone with 3.5mm plug	\$30.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Miscellaneous</b>		
AD118	14-pin ACC adapter to use with Hirose plug accessories	\$80.00
MSD CARD	32GB micro SD card	\$30.00
<b>Software &amp; Cables</b>		
CSF3400D	Programming software for the F3400D/F5400D series	\$80.00
CSOTPM1	Over-the-air programming (OTAP) manager software	\$520.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	\$189.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	\$125.00
OPC2338	14-pin programming cable plus transparent data transfer	\$235.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Trunking</b>		
ISL-UGMTR	Type D trunking license for single and multi-site trunking	\$125.00

# F70/F80 – F70D/F80D Series

High End Analog, P25 Conventional, I.S. and FIPS Portables

## SPECS

Frequencies:	136-174, 380-450, 400-470, 450-512MHz
Output Power:	4W (UHF); 5W (VHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5kHz
LCD Display:	Full dot matrix, switchable 1 line 12 character or 2 line 24 character
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Waterproof Rating:	IPX7 submersible
Weight:	14.1oz (with BP-253) 15.9oz (with BP-254)
Intrinsically Safe:	Yes on specific versions
Versions:	Analog only (upgradeable to P25) P25 ready (D versions) P25 ready with FIPS



## FEATURES

Tactical group function  
Mixed mode operation  
Radio stun/kill function (analog only) and Power on password  
Built-in audio compander (analog only)  
Unit Down: UT-124  
2 Step power saver  
Busy, repeater lockout functions  
Selective call / individual call using  
Unit ID & talkgroup ID

## SIGNALING

CTCSS / DTCS encode & decode  
2-Tone, 5-Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

DTMF

MDC1200

- PTT I/Caller ID, selective call, radio check, call alert
- Emergency, emergency mic monitoring
- Stun/revive, call log, status/message
- 500 aliases

## COMES WITH

Antenna (FA-SC55V or FA-SC57U)  
Battery  
P25/analog (BP-253)  
FIPS versions (BP-254)  
Belt Clip (MB-94)  
Owner's manual  
Warranty: 2-Year (F70/F80)  
3-Year (F70D/80D)

## ENCRYPTION

Analog Only:

Simple Inversion: UT-109 32 Codes

Rolling Code: UT-110 1020 Codes

Digital Only:

AES & DES upgrade options

**IPX7**



**OTTO**  
ACCESSORIES  
AVAILABLE

**MDC 1200**  
Compatible

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

# F70/F80 – F70D/F80D Series

High End Analog, P25 Conventional, I.S. and FIPS Portables

## Configurations

Model	Description	MSRP
F80DS 31	380-450MHz P25 radio with FIPS AES installed, no DTMF keypad	\$1,065.00

## Accessories

Model	Description	MSRP
EX2785J02	DES activation upgrade	\$551.00
EX2785J03	AES activation upgrade	\$656.00
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00

### Antennas

AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	\$22.00
CEN EXD 380 MXI	380-420MHz stubby antenna for land mobile portable radios	\$14.50
FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50

### Batteries

BP237	Battery case that holds 6 AA alkaline batteries	\$39.00
BP253	Li-ion 7.2V 1650mAh (typical capacity), 1570mAh (minimum value)	\$110.00
BP254	Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables	\$155.00

### Belt Clips

AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	\$21.00
MB93	Swivel belt clip	\$11.00
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00



# F70/F80 – F70D/F80D Series

High End Analog, P25 Conventional, I.S. and FIPS Portables

## Accessories

Model	Description	MSRP
<b>Carrying Cases</b>		
AW F70 AREA 51	Water repellant case with a swivel belt clip for the F70/80	\$35.00
LCF70 CLIP	Leather case with a metal clip and DTMF keypad cutout for the F70/80 series radios.	\$45.00
LCF70 LOOP	Leather case with a belt loop and DTMF keypad cutout for the F70/80 series radios	\$38.00
LCF70S LOOP	Leather case with a belt loop for the F70/80 series radios. Case is not IS approved with any of our IS radios.	\$38.00
NCF70 CLIP	Nylon carrying case with a clip for the F70/80 radios with a full keypad cutout	\$27.00
NCF70 LOOP	Nylon carrying case with a loop for the F70/80 radios with a full keypad cutout	\$25.00
<b>Chargers</b>		
AD110	Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries	\$28.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug	\$76.00
BC119NS 11	Rapid charger with AD110 installed for F70/80/9011/9021 radios; 100-240V with US style plug	\$95.00
BC121NS	6-Unit Charger Kit BC121N + AD110 x 6. Requires BC157S AC adapter.	\$470.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
<b>Encryption &amp; Internal Modules</b>		
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	\$173.00
UT120 01	P25 upgrade board for F70/80 handhelds	\$541.00
UT124 01	Man down unit	\$90.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	\$155.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	\$68.00
<b>KVL</b>		
KA KVL125	KVL unit powered by 9-volt battery	\$3,185.00
OPC-IAKVL9	Interface Cable with 9 Pin Connector between F70D/F80D & KA KVL125	\$200.00
<b>Manuals</b>		
94415196	F70/F80 CD service manual	\$50.22
97714933	F70S/T & F70DS/DT service manual hardcopy	\$68.00
98814911	F70DS/DT, F70S/T, F80DS/DT, F80S/T owner's manual	\$12.84
<b>Microphones</b>		
HM138	Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80)	\$130.00
HM169	Waterproof speaker mic (9-pin)	\$105.00
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	\$76.00

# F70/F80 – F70D/F80D Series

High End Analog, P25 Conventional, I.S. and FIPS Portables

## Accessories

Model	Description	MSRP
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI9	RedHawk 9-pin cable connects GPS mic to radio (works in analog only)	\$99.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Software &amp; Cables</b>		
CSF70/F1700	Cloning Software F70/F80/F1721/F1821/F2721/F282	\$72.00
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	\$88.00
OPC1536	Radio to radio cloning cable between F70/80/D portable radios	\$123.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	\$168.00
PROGLM6789	Icom to program your radio or IAS product	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Wire Kits</b>		
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	\$125.00

# F9011 – F9021 Series

## P25 Digital & Analog Portables

### SPECS

Frequencies:	136-174, 380-470, 450-520MHz
Output Power:	6W (VHF); 5W (UHF)
Channels:	512 / 128 zones
Channel Spacing:	15 / 30kHz (analog) 12.5kHz (digital)
Display:	Dot matrix with backlighting
Programmable Keys:	12 buttons, 1 toggle, 1 3-position switch
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Waterproof Rating:	IP57 submersible
Weight:	1.17lb (with BP-254)
Versions:	No display, no keypad Display, no DTMF keypad Display, full DTMF keypad



### FEATURES

#### General Features:

- 100 individual ID and 250 talkgroup ID memories
- 4-way navigational cross keypad (S & T versions)
- Encryption toggle
- 3-position zone select switch
- Tactical group function
- Scan settings – dual priority, mode dependent, talk back and more
- Man down option
- 14 pin accessory connector with programmable key assign
- Built-in audio compander (analog only)

#### P25 Digital Features:

- P25 digital conventional
- P25 digital trunking option
- DVSI's AMBE+2™ vocoder
- Digital/analog mixed mode operation
- P25 OTAR option

#### Compliant Standards:

- TIA/EIA TSB 102. CAAB compliant
- NTIA VHF specification compliant
- FIPS 140-2 (level 1) certified AES encryption

### COMES WITH

#### Antenna

- 136-174: FA-S65V
- 380-470: FA-S30U
- 450-520: FA-S75U

#### Battery (BP-254)

#### Belt Clip (MB-115)

#### Owner's manual

#### Warranty: 3 years

### ENCRYPTION

#### DES: UT-128

#### AES/DES: UT-125

#### AES FIPS: UT-125 FIPS

### SIGNALING

#### CTCSS / DCS encode & decode (analog only)

#### 2 Tone endocer and decoder (analog only)

#### DTMF autodial (analog only)

#### MDC1200 (analog only)



# F9011 – F9021 Series

## P25 Digital & Analog Portables

### Configurations

Model	Description	MSRP
F9011B 01	136-174MHz P25 conventional portable, 6W, 512 CH, basic model, no display or keypad	\$1,265.00
F9011B 21	136-174MHz P25 Conventional portable, 6W, 512 CH, basic model, no display or keypad	\$1,330.00
F9011S 15	136-174MHz P25 conventional portable, 6W, 512 CH, display, simple keypad	\$2,020.00
F9011S 25	136-174MHz P25 Conventional portable, 6W, 512 CH, display, simple keypad	\$1,530.00
F9011T 10	136-174MHz P25 conventional portable, 6W, 512 CH, display, full DTMF keypad	\$1,550.00
F9011T 30	136-174MHz P25 Conventional portable, 6W, 512 CH, display, full DTMF keypad	\$1,630.00
F9021B 91	380-470MHz P25 Conventional portable, 5W, 512 CH, basic model, no display or keypad	\$1,330.00
F9021S 95	380-470MHz P25 Conventional portable, 5W, 512 CH, display, simple keypad	\$1,530.00
F9021T 98	380-470MHz P25 Conventional portable, 5W, 512 CH, display, full DTMF keypad	\$1,630.00
F9021B 82	450-512MHz P25 Conventional portable, 5W, 512 CH, basic model, no display or keypad	\$1,330.00
F9021S 85	450-512MHz P25 Conventional, 5W, 512 CH, display, simple keypad	\$1,530.00
F9021T 30	450-512MHz P25 Trunking portable, 5W, 512 CH, display, full DTMF keypad	\$1,550.00
F9021T 89	450-512MHz P25 Conventional portable, 5W, 512 CH, display, full DTMF keypad	\$1,630.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00
QCRRS09	3 year comprehensive radio repair service for P25 radios	\$0.00

#### Antennas

FAS25V	136-148 MHz flexible antenna - F9011 series	\$10.00
FAS58U	400-470 MHz flexible antenna - standard on F9021	\$16.00
FAS65V	148-160 MHz flexible antenna - standard on F9011	\$17.00
FAS67VC	136-174MHz cut antenna - F3400/F9011	\$30.00
GAL 06026	136-174MHz short helical broadband antenna for F9011	\$100.00

#### Batteries

BP237	Battery case that holds 6 AA alkaline batteries	\$39.00
BP254	Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables	\$155.00

#### Belt Clips

AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	\$21.00
MB115	Standard belt clip for F9011 series	\$10.00

#### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

#### Carrying Cases

LCF9011S SWIVEL	Leather carrying case with a swivel clip for the F9011/9021 radios without a full keypad	\$50.00
LCF9011T SWIVEL	Leather carrying case with a swivel clip for the F9011T/9021T radios with a full keypad cutout	\$50.00
NCF9011S CLIP	Nylon carrying case with a clip for the F9011/9021 radios without a full keypad	\$30.00
NCF9011T CLIP	Nylon carrying case with a clip for the F9011T/9021T radios with a full keypad	\$30.00

# F9011 – F9021 Series

## P25 Digital & Analog Portables

### Accessories

Model	Description	MSRP
<b>Chargers</b>		
AD110	Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries	\$28.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug	\$76.00
BC119NS 11	Rapid charger with AD110 installed for F70/80/9011/9021 radios; 100-240V with US style plug	\$95.00
BC121NS	6-Unit Charger Kit BC121N + AD110 x 6. Requires BC157S AC adapter.	\$470.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
SS BC63	Mobile rapid charger with cigarette adapter for the F9011 series	\$215.00
<b>Encryption &amp; Internal Modules</b>		
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT124R 02	Man down unit	\$90.00
UT125 01	AES/DES encryption board with OTAR compliance for F9011/F9511 series	\$695.00
UT125 FIPS	FIPS 140-2 AES encryption board with OTAR compliance for F9011/F9511 series	\$789.00
UT128	DES encryption for F9011/F9511 radios	\$420.00
<b>Headsets</b>		
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	\$84.00
VS4MC	Cable with heavy duty PTT swith with 14-pin connector. Use with HS94/HS95/HS97.	\$150.00
<b>KVL</b>		
KA KVL125	KVL unit powered by 9-volt battery	\$3,185.00
OPC-IAKVL14	Interface Cable with 14 Pin Connector between F9011/F9021 & KA KVL125	\$230.00
<b>Microphones</b>		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM-HD7I6WP	Large waterproof speaker microphone with 3.5mm accessory jack(14-pin connector)	\$120.00
IMPACT HD3-I6	Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector)	\$98.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Miscellaneous</b>		
AD118	14-pin ACC adapter to use with Hirose plug accessories	\$80.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI14	RedHawk 14-pin cable connects GPS mic to radio (works in analog, P25 digital and IDAS)	\$275.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members	\$584.00

# F9011 – F9021 Series

## P25 Digital & Analog Portables

### Accessories

Model	Description	MSRP
	within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	
<b>Software &amp; Cables</b>		
CSF9010/F9510	F9011/9511 programming software	\$72.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	\$189.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	\$125.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Trunking</b>		
ISL-3	P25 trunking upgrade for the F9011/9511 series radios	\$500.00

# F7010 – F7020 Series

## P25 Conventional & Analog Portables

### SPECS

Frequencies:	136-174, 380-470, 450-512MHz
Output Power:	5W
Channels:	1024 w/128 zones
Display:	High resolution color LCD
Mil Spec:	C, D, E, F & G
Waterproof Rating:	IP68
Weight:	12.5oz



### FEATURES

#### General Features:

- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Man down, motion detection, stationary detection, lone worker, and power OFF emergency
- AquaQuake™
- Audio equalizer
- Day and night mode display settings

#### P25 Digital Features:

- P25 conventional
- P25 Phase 1 trunking option
- P25 Phase 2 trunking option
- P25 vote scan option
- Analog/digital mixed operation
- Individual, group call
- Unit ID and talkgroup display on receive
- Status call and polling
- Short data message (up to 100 characters)
- Page call
- Phone number list
- Call log

### COMES WITH

Battery (BP-284)  
Belt Clip (MB-133)  
Owner's manual  
Warranty: 3 years

### ENCRYPTION

AES/DES: UT-134 + license key  
FIPS AES: UT-125 FIPS-2 + license key

### SIGNALING

2-tone, CTCSS, DTCS tone  
MDC functions  
DTMF autodial





# F7010 – F7020 Series

## P25 Conventional & Analog Portables

### Configurations

Model	Description	MSRP
F7010S	136-174MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately.	\$1,580.00
F7010T	136-174MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately.	\$1,650.00
F7020S 11	380-470MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately.	\$1,580.00
F7020T 21	380-470MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately.	\$1,650.00
F7020S 31	450-512MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately.	\$1,580.00
F7020T 41	450-512MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately.	\$1,650.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00
QCRRS09	3 year comprehensive radio repair service for P25 radios	\$0.00

#### Antennas

FAS67VC	136-174MHz cut antenna - F3400/F9011	\$30.00
FAS76UC	380-520MHz cut antenna for F4400/F9021	\$30.00
FAS81U	380-430MHz antenna for F4400	\$17.00
FAS81US	400-450MHz stubby antenna for F4400	\$17.00
FAS81V	136-150MHz antenna for F3400	\$17.00
FAS81VS	136-150MHz stubby antenna for F3400	\$17.00
FAS82U	430-480MHz antenna for F4400	\$17.00
FAS82US	450-490MHz stubby antenna for F4400	\$17.00
FAS82V	148-162MHz antenna for F3400	\$17.00
FAS82VS	150-162MHz stubby antenna for F3400	\$17.00
FAS83U	470-520MHz antenna for F4400	\$17.00
FAS83V	160-174MHz antenna for F3400	\$17.00
FAS83VS	160-174MHz stubby antenna for F3400	\$17.00

#### Batteries

BP284	Li-ion 7.4V 3210mAh (typical capacity), 3070mAh (minimum value)	\$175.00
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#### Belt Clips

MB133	Alligator type belt clip	\$17.00
MB136	Swivel belt clip for F1000/F3400/F7010 series	\$15.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

#### Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00



# F7010 – F7020 Series

## P25 Conventional & Analog Portables

### Accessories

Model	Description	MSRP
<b>Carrying Cases</b>		
LCF1035SW	Leather case with swivel belt loop and D-ring; display cutout for the F3400DS & F7010S	\$45.00
NCF1035C	Nylon case with metal clip with display cutout; F3400DS/F7010S	\$27.00
NCF1036C	Nylon case with metal clip with full keypad cutout; F3400DT/F7010T	\$27.00
<b>Chargers</b>		
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC214-1	Six gang charger for F3400 series (includes AC adapter with US plug)	\$510.00
BC214-1E	Six gang charger for F3400 series (includes AC adapter with Euro plug)	\$510.00
BC219	Rapid charger for radios with the BP283/BP284; 100-240V with a US style plug	\$67.00
BC219E	Rapid charger for radios with the F3400 series; 100-240V with a Euro style plug	\$67.00
BC225	Smart rapid charger; 100-240V with a US style plug	\$135.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
SS BC62	Mobile rapid charger with cigarette adapter for the F3400 & F7010 series	\$215.00
<b>Encryption &amp; Internal Modules</b>		
CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 series	\$600.00
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
ISL-P25AES	AES activation key enables AES in radio (requires UT134 or UT125 FIPS-2)	\$360.00
UT125 FIPS-2	FIPS 140-2 AES encryption board for F7010/F7510 series	\$830.00
UT134	AES/DES encryption board for F3400/F5400 & F7010/F7510 series	\$185.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	\$84.00
VS3	Bluetooth pendant earpiece microphone w/PTT	\$149.00
VS4MC	Cable with heavy duty PTT switch with 14-pin connector. Use with HS94/HS95/HS97.	\$150.00
<b>Licenses</b>		
ISL-P25DS	P25 packet data service (GPS/text) license	\$175.00
ISL-P25FP	Front panel programming	\$330.00
ISL-P25VS	P25 conventional voting scan license	\$120.00
<b>Microphones</b>		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM222	IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector)	\$145.00
IAHM600	Wireless speaker microphone, which includes charger and charging cable	\$215.00
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00
SP29	Earhook type earphone with 3.5mm plug	\$25.00
SP40	Earphone with 3.5mm plug	\$30.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50

# F7010 – F7020 Series

## P25 Conventional & Analog Portables

### Accessories

Model	Description	MSRP
<b>Miscellaneous</b>		
AD118	14-pin ACC adapter to use with Hirose plug accessories	\$80.00
<b>Software &amp; Cables</b>		
CSF7510	Programming software for the F7010 & F7510 P25 radios	\$100.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	\$125.00
OPC2338	14-pin programming cable plus transparent data transfer	\$235.00
OPC2362	Handheld to mobile zone copy cable (14-pin to 10-pin DIM)	\$100.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
RSBC225	Battery management software for the BP-283/284. Can connect up to 30 BC-225 chargers to it.	\$250.00
<b>Trunking</b>		
ISL-P25P2	P25 Phase 2 trunking license - available late November/early December	\$420.00
ISL-P25TR	P25 Phase 1 trunking license	\$500.00

## Mobiles



# F5011 - F6011 Series

## Basic Analog Mobiles

### SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	8 with 2 zones
Channel Spacing:	12.5kHz
Programmable Keys:	4
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority



### FEATURES

Priority scan function allows you to monitor one or two priority channels while scanning other non-priority channels  
Tx channel and talk back functions allow you to make a quick response while scanning  
4W speaker  
Microphone hanger action programmable  
Time out timer, lock-out penalty timer  
Talk around function  
Power-on password  
Nuisance delete function

### SIGNALING

CTCSS / DCS Encode/Decode

DTMF Encode

2/5 Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel

MDC1200

- PTT ID(Tx)
- Emergency call (Tx)
- Radio check (Rx)
- Stun/revive (Rx)

DTMF decode & autodial: UT-108R

### COMES WITH

Microphone (HM-152)  
Mounting bracket (F121 MMB)  
Power cable (OPC-1132)  
Owner's manual  
Warranty: 2 years

### ENCRYPTION

Simple Inversion: UT-109R 32 Codes  
Rolling Code: UT-110R 1020 Codes



# F5011 - F6011 Series

## Basic Analog Mobiles

### Configurations

Model	Description	MSRP
F5011 51	136-174MHz mobile	\$346.00
F6011 51	400-470MHz mobile	\$346.00
F6011 52	450-512MHz mobile	\$346.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00

#### Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

#### Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$120.00
OPC347	DC power cable (23ft)	\$70.00

#### Encryption & Internal Modules

INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00

#### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

#### Manuals

94415596	F5011 CD service manual	\$28.97
94415697	F6011 CD service manual	\$50.22
97715595	F5011 service manual hardcopy	\$31.45
97715696	F6011 service manual hardcopy	\$35.62
98815594	F5011/6011 owner's manual	\$14.00

#### Microphones

HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00

# F5011 - F6011 Series

## Basic Analog Mobiles

### Accessories

Model	Description	MSRP
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
<b>Mounting Hardware</b>		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00
<b>Power Supplies</b>		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
<b>Software &amp; Cables</b>		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F5021 - F6021 Series

## Advanced Analog Mobiles

### SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	128 channels, 8 zones
Channel Spacing:	12.5 kHz
Display:	LCD with 8 character alphanumeric
Programmable Keys:	6
Mil Spec:	810 C, D, E, F
Scan:	Normal & priority



### FEATURES

External memory channel control w/ optional ACC cable  
Tx channel setting & talk back function  
Radio kill, stun, revive  
Embedded ESN  
Mode dependent scan  
Lone worker function  
Power-on password  
Nuisance delete function

### SIGNALING

CTCSS / DCS Encode/Decode

2/5 Tone Encode/Decode

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

MDC1200

- PTT ID (Tx/Rx)
- Radio stun (Rx)
- Emergency TX/RX
- Radio check (Rx)
- Radio revive (Rx)
- 5 alias table

### COMES WITH

Microphone (HM-152)  
Mounting bracket  
Power cable (OPC-1132)  
Owner's manual  
Warranty: 2 years

### ENCRYPTION

Simple Inversion: UT-109R 32 Codes  
Rolling Code: UT-110R 1020 Codes



# F5021 - F6021 Series

Advanced Analog Mobiles

## Configurations

Model	Description	MSRP
F5021 51	136-174MHz mobile	\$395.00
F6021 51	400-470MHz mobile	\$395.00
F6021 52	450-512MHz mobile	\$395.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00

### Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

### Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$120.00
OPC347	DC power cable (23ft)	\$70.00

### Encryption & Internal Modules

INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00

### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

### Manuals

94415499	F5021 CD service manual	\$28.97
94415641	F6021 CD service manual	\$28.97
97715439	F5021 service manual	\$78.87
97715473	F6021 service manual	\$47.99
98815638	F5021/6021 owner's manual	\$17.16

### Microphones

HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00



# F5021 - F6021 Series

Advanced Analog Mobiles

## Accessories

Model	Description	MSRP
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
<b>Mounting Hardware</b>		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00
<b>Power Supplies</b>		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
<b>Software &amp; Cables</b>		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F5121D - F6121D Series

IDAS™ Mobiles

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	128 with 8 zones
Channel Spacing:	12.5kHz; 6.25kHz Digital
LCD Display:	8 Character alphanumeric LCD with backlit or night time operation
Programmable Keys:	7
Mil Spec:	810 C, D, E, F
Scan:	Normal, priority & dual priority



## FEATURES

### General Features:

- Lone worker function
- Power-on password function
- Time out timer
- Mic hanger action programmable

### Digital Features:

- IDAS™ conventional
- IDAS™ single-site trunking
- Digital / Analog mixed mode operation
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 64 Radio Access Numbers (RAN)
- GPS receiver connection w/ optional OPC-2078 ACC cable
- Programmable features:
  - PTT ID
  - RAN (radio access number)
  - Individual/talkgroup list (max 500)
  - SDM (short data message)
  - Remote monitor (Rx)
  - Digital voice scrambler
  - Call alert, stun/kill/revive (Rx), Emergency
  - Status, Radio check (Rx)

## COMES WITH

Microphone (HM-152)  
Mounting bracket kit  
DC Power cable (OPC-1132)  
Owner's manual  
Warranty: 2 years

## SIGNALING

2/5 Tone in analog mode  
CTCSS/DTCS encoder/decoder (analog only)  
DTMF Encode  
DTMF Decode: UT-108R  
MDC1200

- PTT ID
- Emergency
- Radio check (Rx)
- Stun/revive (Rx)
- 500 alias table



# F5121D - F6121D Series

IDAS™ Mobiles

## Configurations

Model	Description	MSRP
F5121D 56	136-174MHz IDAS mobile	\$635.00
F6121D 57	400-470MHz IDAS mobile	\$635.00
F6121D 58	450-512MHz IDAS mobile	\$635.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

### Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

### Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$120.00
OPC347	DC power cable (23ft)	\$70.00

### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

### GPS

IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	\$110.00
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### Manuals

94415608	F5121D CD service manual	\$28.97
94415695	F6121D CD service manual	\$50.22
97715607	F5121D service manual - hardcopy	\$55.08
97715710	F6121D service manual - hardcopy	\$54.36
98815606	F5121D/6121D owner's manual	\$17.12

### Microphones

HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00

# F5121D - F6121D Series

IDAS™ Mobiles

## Accessories

Model	Description	MSRP
<b>Mounting Hardware</b>		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00
<b>Power Supplies</b>		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Software &amp; Cables</b>		
CSF3101D/F5121D	F3101D/F5121D series programming software	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F5220D - F6220D Series

## IDAS Trunking Mobiles

### SPECS

Frequencies:	136-174, 400-470, 450-512
Output Power:	50W (VHF); 45W (UHF)
Channels:	128 with 8 zones
Channel Spacing:	15 / 12.5 / 6.25kHz
Mil Spec:	MIL 810
Scan:	Priority/Vote/Roaming
Weight:	2.4lb



### FEATURES

#### General Features:

- Channel announcement
- CTCSS/DTCS encoder/decoder
- Microphone hanger action programmable
- Power-on password function
- Talk around function
- Voting scan
- Nuisance delete function
- Time-out-timer, lock-out penalty

#### Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Up to 500 individual and up to 500 group ID aliases (Each for single-site/multi-site/conventional)
- PTT ID and ANI
- Call alert
- Status
- SDM (Short Data Message)
- Radio check (RX)
- RAN (Radio Access Number)
- Remote monitor (RX)
- Emergency

### COMES WITH

Hand Microphone (HM-152)  
Mounting bracket kit  
DC Power cable (OPC-1132)  
Owner's manual  
Warranty: 2 years



# F5220D - F6220D Series

## IDAS Trunking Mobiles

### Configurations

Model	Description	MSRP
F5220D 01	136-174MHz IDAS mobile	\$695.00
F6220D 01	400-470MHz IDAS mobile	\$695.00
F6220D 21	450-512MHz IDAS mobile	\$695.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

#### Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

#### Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$120.00

#### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

#### GPS

IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	\$110.00
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#### Manuals

94416649	F6220D CD service manual	\$28.97
94416651	F5220D CD service manual	\$28.97
97716648	F6220D hardcopy service manual	\$37.73
97716650	F5220D hardcopy service manual	\$35.40
98816647	F5220D/6220D hardcopy service manual	\$17.12

#### Microphones

HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00

# F5220D - F6220D Series

## IDAS Trunking Mobiles

### Accessories

Model	Description	MSRP
<b>Mounting Hardware</b>		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00
<b>Power Supplies</b>		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Software &amp; Cables</b>		
CSF3210D	Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	512 channels, 128 zones
Channel Spacing:	12.5kHz, 6.25kHz (D versions)
LCD Display:	Dot matrix, switchable 1 line 12 character or 2 line 24 character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority



## FEATURES

### General Features

- Basic LTR, Analog, Digital mixed mode
- Detachable front panel (req. separation kit)
- D-Sub accessory connector
- 8 DTMF autodial memories & ANI functions
- Power ON password
- Radio stun/kill
- Surveillance function (temp. turns LEDs off)
- Busy repeater lock out function

### Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Voting mode scanning
- NXDN® Digital Air Interface
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

## SIGNALING

CTCSS/DCS encode/decode  
2/5 Tone  
DTMF  
ANI with 2/5 tone & DTMF  
MDC1200

## ENCRYPTION

Simple Inversion: UT-109R 32 Codes  
Rolling Code: UT-110R 1020 Codes

## COMES WITH

Microphone (HM-148G)  
Mounting bracket  
Power cable (OPC-1132)  
Owner's manual  
Warranty: 3 years

MULTITRUNK

**IDAS™**  
ICOM DIGITAL ADVANCED SYSTEM





# F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

## Configurations

Model	Description	MSRP
F5061 21	136-174MHz analog only mobile	\$600.00
F5061D 51	136-174MHz IDAS mobile	\$785.00
F5061D 62	136-174MHz IDAS mobile with 512 channels and the HM152. No manual included. LIMITED STOCK. SALE PRICE.	\$825.00
F5061D 61	136-174MHz IDAS radio, RR firmware installed, HM-148T included	\$853.00
F6061 41	400-470MHz analog mobile	\$600.00
F6061 46	450-512MHz analog mobile	\$600.00
F6061D 61	400-470MHz IDAS mobile	\$785.00
F6061D 66	450-512MHz IDAS mobile	\$785.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00
RR FIRMWARE UPGRADE	Add 3.1 RR firmware to your IDAS radio	\$16.66

## Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

## Cables

F5061 IGN SENSE CABLE	96" cable with 3A fuse	\$15.00
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC347	DC power cable (23ft)	\$70.00

## Encryption & Internal Modules

INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00
UT126H 03	6.25kHz digital module for F3161/4161 or F5061/6061 radios	\$250.00
UT-IA100	Audio amp board for F5061D with RR firmware installed (factory install ONLY; install included in price)	\$100.00

## External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

## Filters

PW LF-1	Noise filter to use with the F5061D with the UT-IA100 already installed.	\$55.00
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# F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

## Accessories

Model	Description	MSRP
<b>GPS</b>		
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	\$110.00
<b>Manuals</b>		
94415251	F5061/F6061 CD service manual	\$28.97
97715252	F5061/D service manual - hardcopy	\$28.18
97715259	F6061/D service manual - hardcopy	\$32.45
98815253	F5061/D owner's manual	\$14.34
98815260	F6061/D owner's manual	\$10.46
<b>Microphones</b>		
HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
<b>Miscellaneous</b>		
IA-10401	Split dispatch dongle	\$100.00
<b>Mounting Hardware</b>		
F5061 MMB	Mounting bracket included with the F5061/F6061	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00
MSA 1421-00LRM	Locking trunnion for F5061/6061	\$53.00
<b>Power Supplies</b>		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20AG/IC09	110V power supply and cabinet for control station use for F5061/6061	\$230.00
ICT IC09 220V	220V power supply and cabinet for control station use for F5061/6061	\$255.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00

# F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

## Accessories

Model	Description	MSRP
<b>Remote Mounting</b>		
OPC607	3m/9.8ft separation cable for remote mounting kits	\$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	\$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	\$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	\$65.00
RMK3 01	F5061/6061 bracket & face plate for remote mounting. Separation cable not included	\$110.00
<b>Software &amp; Cables</b>		
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	\$110.00
PROGLM6789	Icom to program your radio or IAS product	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F5360D – F6360D Series

Analog and IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

## SPECS

Frequencies:	136-174, 400-470MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	512 channels, 128 zones
Channel Spacing:	12.5kHz, 6.25kHz
LCD Display:	Dot matrix, switchable 1 line 12 character or 2 line 24 character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority



## FEATURES

### General Features

- Analog, Digital mixed mode
- GPS built-in (requires GPS antenna)
- D-Sub accessory connector
- 8 DTMF autodial memories & ANI functions
- Power ON password
- Radio stun/kill
- Surveillance function (temp. turns LEDs off)
- Busy repeater lock out function
- Menu driven user interface

### Digital Features:

- IDAS™ conventional
- IDAS Type C trunking
- NXDN® Digital Air Interface
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Transparent data
- Over-the-air alias

## SIGNALING

CTCSS/DCS encode/decode  
DTMF  
MDC1200

## COMES WITH

Microphone (HM-148G)  
Mounting bracket  
Power cable (OPC-1132)  
Owner's manual  
Warranty: 3 years



# F5360D – F6360D Series

Analog and IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

## Configurations

Model	Description	MSRP
F5360D 01	136-174MHz, 50W, GPS, 512CH, type-C trunking	\$865.00
F6360D 01	400-470MHz, 45W, GPS, 512CH, type-C trunking	\$865.00

## Accessories

Model	Description	MSRP
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00

### Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

### Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC347	DC power cable (23ft)	\$70.00

### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

### Microphones

HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00

### Mounting Hardware

F5061 MMB	Mounting bracket included with the F5061/F6061	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00

### Power Supplies

CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20AG/IC09	110V power supply and cabinet for control station use for F5061/6061	\$230.00
ICT IC09 220V	220V power supply and cabinet for control station use for F5061/6061	\$255.00

### Software & Cables

CSF3360D/F5360D	Programming software for the F3360D & F5360D series	\$90.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	\$110.00
OPC2344	Modular connector programming cable plus Type-C NXDN transparent data transfer for	\$135.00

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

## F5360D – F6360D Series

Analog and IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

### Accessories

Model	Description	MSRP
	F5360D/4360D	
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F5400D – F6400D Series

## VHF UHF Digital Mobile Transceiver

### SPECS

Frequencies:	136-174, 380-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	1024 channels w/128 zones
Channel Spacing:	12.5kHz, 6.25kHz
LCD Display:	High-resolution color with icons and characters
Programmable Keys:	7 (D); 5 (DS)
Mil Spec:	C, D, E, F, G
Weight:	3.3lb
Waterproof Rating:	IP55
Versions:	With full display With numeric number only



### FEATURES

#### General Features

- Basic LTR® / Conventional / IDAS
- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- High-resolution color LCD
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Safety features: emergency button, lone worker function, and power OFF emergency function
- AquaQuake™
- Audio equalizer\*
- D-Sub 25-pin ACC connector
- 20W audio amplifier for connecting with external public address system

#### Digital Features:

- IDAS™ conventional
- IDAS single-site and multi-site Type D trunking (optional upgrade)
- IDAS single-site and multi-site Type C trunking (optional upgrade)\*
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Individual & group selective call

### COMES WITH

Hand microphone (HM-220)  
Mounting bracket kit  
DC power cable  
Microphone hanger  
Owner's manual  
Warranty: 3 years

### ANALOG SIGNALING

2-tone, 5-tone, CTCSS and DTCS built-in  
DTMF autodial and DTMF decode  
MDC1200 compatible

### ENCRYPTION

AES/DES UT-134  
Over-the-Air Rekeying (requires license)\*

\*Future Availability

MULTITRUNK

IDAS™  
ICOM DIGITAL ADVANCED SYSTEM

Meets  
MIL-STD 810

MDC 1200  
Compatible

# F5400D – F6400D Series

VHF UHF Digital Mobile Transceiver

## Configurations

Model	Description	MSRP
F5400DS 11	136-174MHz IDAS mobile with numerical display	\$995.00
F5400D 01	136-174MHz IDAS mobile with color display	\$1,040.00
F6400DS 11	380-470MHz IDAS mobile with numeric display	\$995.00
F6400D 01	380-470MHz IDAS mobile with color display	\$1,040.00
F6400DS 31	450-512MHz IDAS mobile with numerical display	\$995.00
F6400D 21	450-512MHz IDAS mobile with color display	\$1,040.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00
ISL-AK25K	Add 25kHz into the radio	\$13.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

### Antennas

UX241	GPS antenna	\$55.00
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### Encryption & Internal Modules

CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 series	\$600.00
ISL-AKAES	AES activation code for F3400/F5400 series	\$360.00
UT134	AES/DES encryption board for F3400/F5400 & F7010/F7510 series	\$185.00

### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

### Microphones

HM220	Heavy duty microphone (IP54) for the F5400 series	\$100.00
HM220T	Heavy duty microphone with DTMF keypad (IP54) for the F5400 series	\$160.00
HM221	Microphone (IP55) for the F5400 series	\$100.00
HM221T	Microphone with DTMF keypad (IP55) for the F5400 series	\$160.00
SM29	Desktop microphone for F5400 series	\$175.00

### Miscellaneous

MSD CARD	32GB micro SD card	\$30.00
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### Power Supplies

CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
IAPS12	Power supply with cover for control station (120VAC; 12A)	\$210.00
IAPS12E	Power supply with cover for control station (220VAC; 12A)	\$240.00

### Remote Mounting

HM218	Secondary remote control microphone, COMMANDMIC, for the F5400D/F6400D. Requires RMK5 + OPC2373 or OPC2374.	\$500.00
OPC2364	1.9m/6.2ft separation cable for RMK5/RMK7	\$53.00



# F5400D – F6400D Series

VHF UHF Digital Mobile Transceiver

## Accessories

Model	Description	MSRP
OPC2365	3m/9.8ft separation cable for RMK5/RMK7	\$57.00
OPC2366	5m/16.4ft separation cable for RMK5/RMK7	\$65.00
OPC2367	8m/26.2ft separation cable for RMK5/RMK7	\$80.00
OPC2373	1.9m/6.2ft separation cable for HM218	\$53.00
OPC2374	8m/26.2ft separation cable for HM218	\$80.00
RMK5	Bracket & face plate for remote mounting for the F5400D/F6400D. Separation cable not included.	\$215.00
RMK7	Dual head and separation kit for the F5400D/F6400D. Separation cable & microphone not included.	\$650.00
<b>Software &amp; Cables</b>		
CSF3400D	Programming software for the F3400D/F5400D series	\$80.00
CSF3400D	Programming software for the F3400D/F5400D series	\$80.00
CSOTPM1	Over-the-air programming (OTAP) manager software	\$520.00
OPC2362	Handheld to mobile zone copy cable (14-pin to 10-pin DIM)	\$100.00
OPC2363	10-pin DIM programming cable	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Trunking</b>		
ISL-UGMTR	Type D trunking license for single and multi-site trunking	\$125.00

# F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF); 45W (UHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5 / 25kHz
LCD Display:	Dot matrix, switchable 1 line 12 characters or 2 lines 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Versions:	Analog only (upgradeable to P25) P25 ready (D versions)



## FEATURES

### General Features

- Detachable front panel
- Radio stun / kill
- Tactical group function
- Built-in audio compander (analog only)
- 22W PA built-in
- Power-on password function

### Digital P25 Features

- Interoperability with other manufacturer's P25 digital radios in conventional mode
- Compatible w/ both analog FM & P25 digital mode

## SIGNALING

MDC1200

CTCSS/DCS encode/decode

DTMF decode

2/5 tone encode/decode

Enhanced MDC (optional on analog)

ANI with 2/5 tone & DTMF

## COMES WITH

Hand mic (HM-148G)  
External speaker (SP-22) for F2821  
Mounting bracket kit  
DC Power cable (OPC-1132)  
Owner's manual  
Warranty: 2-Year  
3-Year ("D" series)

## ENCRYPTION

Simple Inversion: UT-109 02 32 Codes  
Rolling Code: UT-110 02 1020 Codes



# F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

## Configurations

Model	Description	MSRP
F2821D 23	400-470MHz analog mobile, upgradeable to P25	\$690.00
F2821D 21	400-470MHz P25 mobile	\$1,299.00
F2821D 22	450-512MHz P25 mobile	\$800.00

## Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EX2785J01	P25 activation software for F70/80 & F1721/2721 radios	\$680.00
EX2785J02	DES activation upgrade	\$551.00
EX2785J03	AES activation upgrade	\$656.00
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00
QCRRS09	3 year comprehensive radio repair service for P25 radios	\$0.00

## Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

## Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC347	DC power cable (23ft)	\$70.00
OPC617	Accessory cable for external terminal connection	\$65.00

## Encryption & Internal Modules

INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	\$173.00
UT120 02	P25 Hardware Upgrade Board - Mobiles	\$541.00

## External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

## KVL

KA KVL125	KVL unit powered by 9-volt battery	\$3,185.00
OPC-IAKVL1	Interface Cable with RJ45 Connector between P25 mobiles & KA KVL125	\$150.00

## Manuals

94414901	F1721/1821/2721/2821 CD service manual	\$50.22
97714917	F1721/D & F1821/D service manual hardcopy	\$43.69

# F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

## Accessories

Model	Description	MSRP
98814877	F1721/D, F1821/D, F2721/D, F2821/D owner's manual	\$17.12
<b>Microphones</b>		
HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DTMF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
<b>Mounting Hardware</b>		
F1721 MMB	Mounting bracket for F1721/F1821, F2721/2821, F9011S/T	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00
<b>Power Supplies</b>		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20A/IC06	110V power supply & cabinet for control station use on P25 radios	\$230.00
ICT IC06 220V	220V power supply & cabinet for control station use on P25 radios	\$255.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI1D	RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital). May require AFO mod on radio.	\$225.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Remote Mounting</b>		
OPC607	3m/9.8ft separation cable for remote mounting kits	\$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	\$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	\$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	\$65.00
RMK2	F1721/1821 bracket & face plate for remote mounting. Separation cable not included	\$145.00
<b>Software &amp; Cables</b>		
CSF70/F1700	Cloning Softwre F70/F80/F1721/F1821/F2721/F282	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
OPC1532	Radio to radio cloning cable between P25 mobile radios	\$42.00
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	\$88.00

# F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

## Accessories

Model	Description	MSRP
PROGLM6789	Icom to program your radio or IAS product	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# F9511 - F9521 Series

## P25 Trunking Mobiles

### SPECS

Frequencies:	136-174, 400-470, 450-520MHz
Output Power:	50W or 110W (VHF), 50W (UHF)
Channels:	512 / 128 zones
Channel Spacing:	15/30 (analog), 12.5kHz (digital)
PLL Channel Spacing:	2.5, 3.125kHz
LCD Display:	Dot matrix with backlighting and 2 lines of 12 characters each
Programmable Keys:	5 (S) or 7 (T)
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Waterproof Rating:	IP54 dust-protection and splash proof (controller only)
Versions:	50W without a DTMF keypad 50W with DTMF keypad 110W with DTMF keypad



### FEATURES

#### General Features:

- 100 individual ID and 250 talkgroup ID memories
- Detachable front panel
- Programmable ACC port for external control, dimmer and horn control
- Dual head capable with 110W version
- Tactical group function
- 22W PA function with BTL amplifier
- RX speaker functions
- Scan settings – dual priority, mode dependent, talk back and more
- Built-in audio compander (analog only)
- Radio stun/kill function (P25 digital only)

#### P25 Digital Features:

- P25 digital conventional
- P25 digital trunking option
- DVSI's AMBE+2™ vocoder
- Digital/analog mixed mode operation
- P25 OTAR option

#### Compliant Standards:

- TIA/EIA TSB 102. CAAB compliant
- NTIA VHF specification compliant
- FIPS 140-2 (level 1) certified AES encryption

### COMES WITH

Microphone (HM-148G)  
Mounting bracket  
Power cable  
Owner's manual  
Warranty: 3 years

F9511T includes the SP-35

F9511HT includes the OPC-726, but requires an external speaker

### ENCRYPTION

DES: UT-128  
AES/DES: UT-125  
AES FIPS: UT-125 FIPS

### SIGNALING

CTCSS/DTCS encorder & decoder (analog only)  
2 Tone endocder & decoder (analog only)  
MDC1200 (analog only)  
DTMF audiodial (analog only)



# F9511 - F9521 Series

## P25 Trunking Mobiles

### Configurations

Model	Description	MSRP
F9511HT 21	136-174MHz 110W P25 Conventional mobile with full keypad. No external speaker included - must be ordered separately	\$2,700.00
F9511S 01	136-174MHz P25 conventional 50W mobile with no keypad	\$1,605.00
F9511S 21	136-174MHz P25 conventional 50W mobile with no keypad	\$1,690.00
F9511T 15	136-174MHz P25 conventional 50W mobile with keypad	\$1,720.00
F9511T 25	136-174MHz P25 Conventional 50W mobile with keypad	\$1,810.00
F9521S 41	400-470MHz 45W P25 Conventional mobile, no keypad	\$1,690.00
F9521T 25	400-470MHz mobile with full keypad	\$1,720.00
F9521T 45	400-470MHz P25 Conventional 45W mobile, full keypad	\$1,810.00
F9521S 31	450-512MHz 45W P25 conventional mobile, no keypad	\$2,060.00
F9521S 51	450-512 MHz P25 conventional 45W mobile with no keypad	\$1,690.00
F9521T 55	450-512MHz P25 Conventional 45W mobile with full keypad	\$1,810.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00
QCRRS09	3 year comprehensive radio repair service for P25 radios	\$0.00

### Antennas

ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$18.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	\$43.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	\$55.00
ANTENNA 4	152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz	\$20.00

### Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC1962	DC power cord for F9511HT	\$60.00
OPC347	DC power cable (23ft)	\$70.00

### Encryption & Internal Modules

INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT125 01	AES/DES encryption board with OTAR compliance for F9011/F9511 series	\$695.00
UT125 FIPS	FIPS 140-2 AES encryption board with OTAR compliance for F9011/F9511 series	\$789.00
UT128	DES encryption for F9011/F9511 radios	\$420.00

### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

### KVL

KA KVL125	KVL unit powered by 9-volt battery	\$3,185.00
OPC-IAKVL1	Interface Cable with RJ45 Connector between P25 mobiles & KA KVL125	\$150.00

# F9511 - F9521 Series

## P25 Trunking Mobiles

### Accessories

Model	Description	MSRP
<b>Manuals</b>		
94415436	F9511 CD service manual	\$50.22
97715423	F9511 service manual - hardcopy	\$62.12
<b>Microphones</b>		
HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM211	Noise cancelling mobile hand microphone	\$145.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
<b>Mounting Hardware</b>		
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	\$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	\$38.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	\$45.00
<b>Power Supplies</b>		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
ICT CS120-20A/IC06	110V power supply & cabinet for control station use on P25 radios	\$230.00
ICT CS120-30A/IC08	110V power supply and cabinet for control station use for F9511HT	\$700.00
ICT IC06 220V	220V power supply & cabinet for control station use on P25 radios	\$255.00
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI1D	RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital). May require AFO mod on radio.	\$225.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
IAS REDHAWK	Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	\$584.00
<b>Remote Mounting</b>		
OPC607	3m/9.8ft separation cable for remote mounting kits	\$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	\$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	\$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	\$65.00
RMK2	F1721/1821 bracket & face plate for remote mounting. Separation cable not included	\$145.00
RMK4 01	Dual head and separation kit for F9511HT. Requires external speaker and cable.	\$860.00
<b>Software &amp; Cables</b>		
CSF9010/F9510	F9011/9511 programming software	\$72.00
CSRMK4	Programming software for the RMK4	\$80.00



# F9511 - F9521 Series

## P25 Trunking Mobiles

### Accessories

Model	Description	MSRP
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Trunking</b>		
ISL-3	P25 trunking upgrade for the F9011/9511 series radios	\$500.00

# F7510 – F7520 Series

## P25 Conventional & Analog Mobiles

### SPECS

Frequencies:	136-174, 380-470, 450-512MHz
Output Power:	50W (VHF); 45W (UHF)
Channels:	1024 w/128 zones
Display:	High resolution color LCD
Programmable Keys:	7
Mil Spec:	C, D, E, F & G
Waterproof Rating:	IP55
Weight:	3.3lb



### FEATURES

#### General Features:

- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Safety features: emergency key, lone worker function, and power OFF emergency
- Day and night mode display settings
- D-Sub 25-pin ACC connector

#### P25 Digital Features:

- P25 conventional
- P25 Phase 1 trunking option
- P25 Phase 2 trunking option
- P25 vote scan option
- Analog/digital mixed operation
- Individual, group call
- Unit ID and talkgroup display on receive
- Status call and polling
- Short data message (up to 100 characters)
- Page call
- Phone number list
- Call log

### COMES WITH

Hand microphone (HM-220)  
Mounting bracket kit  
DC power cable  
Microphone anger  
Owner's manual  
Warranty: 3 years

### ENCRYPTION

AES/DES: UT-134 + license key  
FIPS AES: UT-125 FIPS-2 + license key

### SIGNALING

2-tone, CTCSS, DTCS tone  
MDC functions  
DTMF autodial



# F7510 – F7520 Series

## P25 Conventional & Analog Mobiles

### Configurations

Model	Description	MSRP
F7510	136-174MHz P25 conventional mobile with color display	\$1,720.00
F7520 11	380-470MHz P25 conventional mobile with color display	\$1,720.00
F7520 21	450-512MHz P25 conventional mobile with color display	\$1,720.00

### Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00
QCRRS09	3 year comprehensive radio repair service for P25 radios	\$0.00

#### Antennas

UX241	GPS antenna	\$55.00
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#### Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC347	DC power cable (23ft)	\$70.00

#### Encryption & Internal Modules

CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 series	\$600.00
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
ISL-P25AES	AES activation key enables AES in radio (requires UT134 or UT125 FIPS-2)	\$360.00
UT125 FIPS-2	FIPS 140-2 AES encryption board for F7010/F7510 series	\$830.00
UT134	AES/DES encryption board for F3400/F5400 & F7010/F7510 series	\$185.00

#### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

#### Headsets

VS3	Bluetooth pendant earpiece microphone w/PTT	\$149.00
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#### Licenses

ISL-P25DS	P25 packet data service (GPS/text) license	\$175.00
ISL-P25FP	Front panel programming	\$330.00
ISL-P25VS	P25 conventional voting scan license	\$120.00

#### Microphones

HM220	Heavy duty microphone (IP54) for the F5400 series	\$100.00
HM220T	Heavy duty microphone with DTMF keypad (IP54) for the F5400 series	\$160.00
HM221	Microphone (IP55) for the F5400 series	\$100.00
HM221T	Microphone with DTMF keypad (IP55) for the F5400 series	\$160.00
SM29	Desktop microphone for F5400 series	\$175.00

#### Power Supplies

CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	\$0.00
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# F7510 – F7520 Series

## P25 Conventional & Analog Mobiles

### Accessories

Model	Description	MSRP
IAPS12	Power supply with cover for control station (120VAC; 12A)	\$210.00
IAPS12E	Power supply with cover for control station (220VAC; 12A)	\$240.00
<b>Remote Mounting</b>		
HM218	Secondary remote control microphone, COMMANDMIC, for the F5400D/F6400D. Requires RMK5 + OPC2373 or OPC2374.	\$500.00
OPC2364	1.9m/6.2ft separation cable for RMK5/RMK7	\$53.00
OPC2365	3m/9.8ft separation cable for RMK5/RMK7	\$57.00
OPC2366	5m/16.4ft separation cable for RMK5/RMK7	\$65.00
OPC2367	8m/26.2ft separation cable for RMK5/RMK7	\$80.00
OPC2373	1.9m/6.2ft separation cable for HM218	\$53.00
OPC2374	8m/26.2ft separation cable for HM218	\$80.00
RMK5	Bracket & face plate for remote mounting for the F5400D/F6400D. Separation cable not included.	\$215.00
RMK7	Dual head and separation kit for the F5400D/F6400D. Separation cable & microphone not included.	\$650.00
<b>Software &amp; Cables</b>		
CSF7510	Programming software for the F7010 & F7510 P25 radios	\$100.00
OPC2362	Handheld to mobile zone copy cable (14-pin to 10-pin DIM)	\$100.00
OPC2363	10-pin DIM programming cable	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
<b>Trunking</b>		
ISL-P25P2	P25 Phase 2 trunking license - available late November/early December	\$420.00
ISL-P25TR	P25 Phase 1 trunking license	\$500.00

## IP, Data & Other Solutions



# IP100H

License-free radio for wireless network (WLAN)

## SPECS

Frequencies:	2412-2472 MHz (13 channels) 5180-5700MHz (19 channels)
WLAN standard:	IEEE 802.11 a/b/g/n
Operating time:	Over 20 hours (with BP-271)
RF output:	Less than 10mW/MHz
Voice codec:	G.711 $\mu$ -law (64kbps)
AF output:	Internal 400mW (16 $\Omega$ ) External 200mW (8 $\Omega$ )
Dimensions (W x H x D):	2 9/23 x 3 47/64 x 1 3/64 in.
Weight:	7.2 oz
Waterproof:	IPX7 waterproof rating
Warranty:	1 Year

Software: [Free download](#)



## FEATURES

License-free system  
IP1000C controller connects to the wireless network

- IPC1000C versions allows up to 20 or 100 radios per network

Add the IP100FS for an IP-based PC-dispatcher  
Compact size, and lightweight  
Supports simplex or full duplex with HM-153LS or HM-166LS connected  
Digital sound quality  
High security with encrypted communication  
Beep/Vibration function for all call types  
OPC-2006LS with HS94/95/97 are applicable for VOX and simplex operation  
Supports WEP/WPA/WPA2

## SUPPLIED ACCESSORIES

Li-Ion battery (BP-271)  
Belt clip (MB-127)  
Wrist strap  
Short stub antenna  
Antenna cover (used for internal antenna)  
Owner's manual

# IPX7

# IP100H

License-free radio for wireless network (WLAN)

## Configurations

Model	Description	MSRP
IP1000C 100	Manages up to 100 radios in a network	\$2,200.00
IP100FS	IP based PC-dispatcher	\$1,650.00
IP100H	IP license-free radio for wireless networks	\$500.00

## Accessories

Model	Description	MSRP
EXTWARR611	1 year extended warranty	\$40.00
EXTWARR612	2 year extended warranty	\$70.00
EXTWARR613	3 year extended warranty	\$110.00

### Antennas

3310004800	IP100H antenna	\$29.18
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### Batteries

BP271	Li-ion 7.4V 1200mAh (typical capacity), 1150mAh (minimum value)	\$99.00
BP272	Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value)	\$139.00
BP273	Battery case that holds 3 AA alkaline batteries	\$68.00

### Belt Clips

MB127	Alligator belt clip	\$25.00
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### Cables

OPC2144	Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios)	\$35.00
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### Carrying Cases

NC100H	Nylon case with a clip for the IP100H	\$25.00
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### Chargers

BC202 02	Rapid charger (includes BC-123SA AC adapter in the box with US plug)	\$70.00
BC207S	12V / 3.5A AC adapter for VEPG3/IP1000C	\$85.00
BC211	Rapid rate 6-unit charger - IP100H	\$510.00
BC211E	Rapid rate 6-unit charger 230V European plug - IP100H	\$510.00

### Headsets

HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC2006LS	Adapter plug with VOX and no PTT to to use with the HS94/95/97	\$35.00
OPC2328	Adapter plug with PTT to to use with the HS94/95/97	\$100.00

### Microphones

HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM183LS	Waterproof compact speaker microphone with right angle connector	\$120.00
HM186LS	Compact speaker microphone with slim right angle connector	\$65.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00

### Miscellaneous

VEPG3	ROIP gateway	\$1,900.00
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# IP100H

License-free radio for wireless network (WLAN)

## Accessories

Model	Description	MSRP
<b>Mounting Hardware</b>		
MB VP3	Rack mounting shelf for VEPG3/IP1000C	\$100.00
MB99A	Wall mounting bracket VEPG3/IP1000C	\$65.00
<b>Remote Communication</b>		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	\$120.00
<b>Software &amp; Cables</b>		
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
<b>Wire Kits</b>		
HM153LS	Covert durable microphone with earphone combination (right angle 2-pin connector)	\$175.00
HM166LS	Earphone microphone with two pin right angle connector	\$99.00
<b>WLAN</b>		
AP90M	Wireless LAN access point (no AC adapter included)	\$550.00
IP100FS	IP based PC-dispatcher	\$1,650.00
RSAP3	Access point management software	\$1,500.00



# VE-PG3

## RoIP Gateway

### SPECS

Power Supply: 12V DC +/- 10%, max 1.1A  
Weight: 1.76lb

#### Interface

LAN/WAN: RJ-45 connectors x 2  
Ethernet Speed: 10BASE-T/100BASE-TX  
Telephone Set: RJ-11 connector x 1  
Telephone Line: RJ-11 connector x 2  
Repeater/Radio: Quick connector x 4  
I/O or external equipment: Quick connector x 2  
USB: Standard A x 2



### FEATURES

#### Converter Mode

- Interconnect between IP phone, analog phone and radio networks
- Phone calls can be initiated by radio users

#### Bridge Mode:

- Site-to-site radio communication over an IP network
- Site-to-multisite radio communication
- Cross band, cross category connection

#### Common Features:

- Optional RC-FS10 software for virtual PC dispatch station
- Public address, siren, warning light and external equipment connections (IDAS only)

### WARRANTY

1-Year

### Comes With

AC adapter

MULTITRUNK

**IDAS**  
ICOM DIGITAL ADVANCED SYSTEM

# VE-PG3

## RoIP Gateway

### Configurations

Model	Description	MSRP
VEPG3	RoIP gateway	\$1,900.00

### Accessories

Model	Description	MSRP
EXTWARR811	1 year extended warranty	\$65.00
EXTWARR812	2 year extended warranty	\$93.00
EXTWARR813	3 year extended warranty	\$130.00

#### **Cables**

OPC2273	5m audio connection cable between the VEPG3 and the M604A (Waterproof 8-pin connector).	\$150.00
OPC2274	5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching.	\$235.00
OPC2275	5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug).	\$150.00

#### **Chargers**

BC207S	12V / 3.5A AC adapter for VEPG3/IP1000C	\$85.00
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#### **Miscellaneous**

CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
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#### **Mounting Hardware**

MB VP3	Rack mounting shelf for VEPG3/IP1000C	\$100.00
MB99A	Wall mounting bracket VEPG3/IP1000C	\$65.00

#### **Remote Communication**

RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	\$1,820.00
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# F5122DD – F6122DD Series

VHF and UHF Data Transceivers

## SPECS

Frequencies:	136-174, 400-470MHz
Output Power:	25W, 10W, 2.5W (Hi, L2, L1)
Channels:	128
Channel Spacing:	12.5 / 6.25kHz
Mil Spec:	810 C, D, E & F
Weight (approx):	2.0lb



## FEATURES

### General Features:

- 9600bps (at 12.5kHz) and 4800bps (at 6.25kHz) data mode programmable
- RS-232 and RS-232 + Ethernet versions
- Fast data transfer using 4-level FSK modulation suitable for real-time data monitoring
- BNC antenna connector
- Individual, group and all calls
- Data encryption function (500 codes)

## COMES WITH

DC power cable  
Mounting bracket kit  
Warranty: 2 years



# F5122DD – F6122DD Series

VHF and UHF Data Transceivers

## Configurations

Model	Description	MSRP
F5122DD 02	136-174MHz data transceiver, 9.6k/4.8kbps, 25W, RS232	\$750.00
F5122DD 12	136-174MHz, 9.6k/4.8kbps, 25W, RS232 + ethernet	\$915.00
F6122DD 02	400-470MHz data transceiver, 9.6k/4.8kbps, 25W, RS232	\$750.00
F6122DD 12	400-470MHz, 9.6k/4.8kbps, 25W, RS232 + ethernet	\$915.00

## Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	\$25.00
EXTWARR212	2 year extended warranty for a total 4 years	\$44.00
EXTWARR213	3 year extended warranty for a total 5 years	\$62.00
<b>Cables</b>		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC347	DC power cable (23ft)	\$70.00
<b>Software &amp; Cables</b>		
CSF5122DD	F5122DD/6122DD programming software	\$80.00
OPC2218LU	Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100	\$75.00

# F8101

## HF Transceiver

### SPECS

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Frequencies:	Receive 0.5-29.9999MHz Transmit 1.6-29.9999MHz
Number of Channels:	500 channels
Type of Emission:	J3E, A3E, A1A, F1B, J2B
Output Power:	125W
Mil Spec:	MIL 810 C, D, E, F, G
Dimensions:	6.85x2.44x10.2 in (Controller attached)
Weight:	8.6lb (Controller attached type)



### FEATURES

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- ALE (Automatic Link Establishment)
- Selective calling
- Compact and durable
- BITE (Built-in Test Equipment) function
- User friendly operation
- Clear talk function
- Mute functions
- Digital Signal Processor (DSP)
- GPS receiver connection
- Data communications
- USB Port for PC connection

### COMES WITH

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- RF unit with controller head
- Microphone (HM-193)
- Microphone hanger kit
- External speaker (SP-35L)
- DC power cable
- Spare fuses
- Owner's manual
- Warranty: 2 years



**IP54**  
DUST PROTECTION  
& SPLASH PROOF

# F8101

## HF Transceiver

### Configurations

Model	Description	MSRP
F8101 33	HF 125W transceiver with ALE (automatic link establishment)	\$3,750.00

### Accessories

Model	Description	MSRP
EXTWARR912	1 year extended warranty	\$125.00
EXTWARR913	2 year extended warranty	\$160.00
EXTWARR914	3 year extended warranty	\$245.00

#### Antenna Tuners

AT140	HF automatic antenna tuner.	\$710.00
MN100L	Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard.	\$455.00

#### Antennas

AH-5NV	Fiberglass antenna element (14.8ft) for short range communication. Special order item.	\$1,875.00
AH740	Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz	\$2,315.00
AH760	1.6MHz-29.999MHz heavy-duty moving coil automatic tuning antenna	\$3,325.00

#### Cables

OPC2308	GPS/External modem connection cable	\$175.00
OPC2309	Antenna tuner control cable for AT-140/AH-740/AH-760 for F8101 (10M or 32.8ft)	\$170.00

#### External Speakers

SP30	20W large external speaker	\$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

#### GPS

UX248	GPS unit	\$325.00
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#### Microphones

HM192	Remote control microphone for F8101	\$640.00
HM193	Hand microphone for the F8101	\$85.00

#### Miscellaneous

CFUF8100	Cooling fan unit	\$440.00
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#### Mounting Hardware

MB126	Mounting bracket for F8101	\$300.00
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#### Remote Mounting

OPC607	3m/9.8ft separation cable for remote mounting kits	\$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	\$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	\$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	\$65.00
RMK6	Remote mount kit for the F8101. Separation cable sold separately.	\$360.00

#### Software & Cables

CSF8101	Programming software. Use a generic USB "A" to "B" cable to program radio.	\$80.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

# Icom America Systems



# X-BAND REPEATER

Cross Band VHF & UHF

## SPECS

Frequencies:	136-174, 400-470MHz or AV frequencies
Output Power:	50W (VHF), 45W (UHF)
Channels:	128 channels, 8 zones
Channel Spacing:	12.5kHz
PLL Channel Spacing:	2.5, 3.125kHz
Display:	LCD with 8 character alphanumeric



## FEATURES

Full UHF & VHF analog interoperability  
Configured to auto switch from AC to DC  
Local controlled operation, can be used as a dual base unit  
Programmable actions when a matched tone is received:

- Bell icon indication ON / OFF / Blink
- Answer back calls
- Beep sounds
- Scan Start / Stop
- Auto transmission
- Stun / Kill functions (prevents use of a lost or stolen)

10 scanning lists and Normal / Priority scan  
Power ON password

## SIGNALING

CTCSS/DTCS decode  
2/5 Tone  
MDC1200

## WARRANTY

Radios: 2 years  
Parts: 1 year



# X-BAND REPEATER

Cross Band VHF & UHF

## Configurations

Model	Description	MSRP
IAS X-BAND 50	VHF FM & UHF FM cross band repeater	\$2,500.00
IAS X-BAND 50 AIR U	Airband AM & UHF FM cross band repeater	\$3,330.00
IAS X-BAND 50 AIR V	Airband AM & VHF FM cross band repeater	\$3,330.00
IAS X-BAND 50 UU	UHF FM & UHF FM cross band repeater	\$2,500.00
IAS X-BAND 50 VV	VHF FM & VHF FM cross band repeater	\$2,500.00

## Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	\$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	\$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	\$465.00
<b>Cabinets</b>		
IASMNT1030	30" (17RU) locking indoor cabinet	\$1,165.00
IASMNT1046	46" (26RU) locking indoor cabinet	\$2,280.00
IASMNT1060	60" (34RU) locking indoor cabinet	\$3,190.00
<b>Racks</b>		
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity	\$395.00
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$750.00
IASMNT1063	63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity	\$995.00
IASMNT1070	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
<b>Software &amp; Cables</b>		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-IAS	Icom to program your system products	\$0.00

# CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W at 50% duty cycle 25W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
Height:	3 RU
Versions:	Repeater only Repeater With Duplexer Repeater With Pre-Selector Repeater With Duplexer & Pre-Selector



## SPECS & FEATURES

- Built-in power supply: 13.8V in or 110V AC in or 220V AC in
- Built-in battery backup & charging capable
- Built-in heavy duty A/C EMI filtering
- 3 RU tall - built-in rack handles
- 19" standard rack or cabinet mounting
- Powder-coated steel chassis N style bulkhead connectors built-in grounding stud
- Max air cross flow: 80 CFM for excellent ventilation
- DB-25 rear connector interface for external equipment
- DC terminal strip for easy BBU connection
- 3 ethernet connections for IP / remote management / trunking
- Digital Features:
  - IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
  - Receives analog and digital signals on a single channel
  - NXDN® Digital Air Interface
  - Strongest site search
  - Firmware upgrade over IP
  - Configuration over IP

## SIGNALING

Digital RAN Code decode  
5-tone & DTMF Encode/Decode (analog)  
CTCSS

## ENCRYPTION

Simple Inversion: UT-109R 32 Codes  
Rolling Code: UT-110R 1020 Codes  
IDAS digital mode, 15-bit encryption key  
provides over  
32K codes

## WARRANTY

1-Year

MULTITRUNK

**IDAS**  
ICOM DIGITAL ADVANCED SYSTEM

# CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

## Configurations

Model	Description	MSRP
CY5000	136-174MHz IDAS analog/digital repeater with power supply	\$2,625.00
CY6001	400-470MHz IDAS analog/digital repeater with power supply	\$2,625.00
CY6002	450-512MHz IDAS analog/digital repeater with power supply	\$2,625.00

## Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	\$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	\$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	\$465.00
INSTALL-IAS	Install a component into a repeater or an item into a cabinet	\$0.00

### Cabinets

IASMNT1030	30" (17RU) locking indoor cabinet	\$1,165.00
IASMNT1046	46" (26RU) locking indoor cabinet	\$2,280.00
IASMNT1060	60" (34RU) locking indoor cabinet	\$3,190.00

### Duplexers

IASDUP1001	136-148 6 cavity 50W internal duplexer, 3MHz TX-RX separation	\$525.00
IASDUP1002	148-160 6 cavity 50W internal duplexer, 3MHz TX-RX separation	\$525.00
IASDUP1003	160-174 6 cavity 50W internal duplexer, 3MHz TX-RX separation	\$525.00
IASDUP1004	136-148 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1005	148-160 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1006	160-174 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1007	136-148 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1008	148-160 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1009	160-174 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1015	152-175MHz 50W internal duplexer for the FR5000 or CY5000 (6-15MHz minimum separation)	\$510.00
IASDUP1035	400-512 4 cavity 100W duplexer, 3MHz TX-RX separation	\$1,895.00
IASDUP1036	400-440 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1037	440-470 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1038	470-490 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1039	490-512 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1040	400-440 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1041	440-470 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1042	470-490 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1043	490-512 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1044	440-512 6 cavity 100W duplexer with 3MHz TX-RX separation	\$2,050.00
IASDUP50CY	CY5000/6000 internal duplexer assembly kit including RF jumpers and screws	\$28.61

### IP Linking

CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board)	\$65.00
CFFR5000MT	Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board)	\$1,375.00

# CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

## Accessories

Model	Description	MSRP
<b>Manuals</b>		
94415355	FR6000 CD service manual	\$16.95
94415514	FR5000 CD service manual	\$28.97
97715348	FR6000 service manual - hardcopy	\$150.99
97715370	FR5000 service manual - hardcopy	\$38.29
98815350	FR5000/6000 owner's manual	\$8.17
<b>Miscellaneous</b>		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
VEPG3	ROIP gateway	\$1,900.00
<b>Mounting hardware</b>		
IASMNT1005	Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000	\$36.00
<b>Pilot Tone Generator</b>		
JPSPTG10	Pilot tone generator for analog operation only (requires universal mounting plate for installation)	\$1,165.00
<b>Power Amplifiers</b>		
IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
IAS2PA351	375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA352	375-400MHz 100W 2RU additional power amplifier (fits next to IASE2PA351 in chassis)	\$3,400.00
IAS2PA505	400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA506	440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA507	470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA508	480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA509	400-430MHz 100W 2RU additional power amplifier (fits next to IASE2PA505 in chassis)	\$3,400.00
IAS2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IAS2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IAS2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
<b>Power Equipment &amp; Rack Mounting</b>		
IASDP1001	DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads.	\$1,825.00
IASIV1300	Site inverter 300W 12/24VDC; 1RU 19" rack mountable	\$675.00
IASMNT1105	Battery charger rackmount kit holds 1 to 2 chargers	\$265.00
IASPS1022	12V/30A PS/battery charger; 1RU	\$830.00
<b>Pre-Selectors</b>		
IASPR1001	136-150MHz 4 cavity pre-selector (assembly kit required with FR5000)	\$700.00
IASPR1002	150-174MHz 4 cavity pre-selector (assembly kit required with FR5000)	\$700.00
IASPR1010	400-440MHz 4 cavity pre-selector (assembly kit required with FR6000)	\$700.00
IASPR1011	440-520MHz 4 cavity pre-selector (assembly kit required with FR6000)	\$700.00
<b>Racks</b>		
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity	\$395.00
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$750.00

# CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

## Accessories

Model	Description	MSRP
IASMNT1063	63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity	\$995.00
IASMNT1070	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
<b>Remote Communication</b>		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	\$120.00
RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	\$1,820.00
<b>Software &amp; Cables</b>		
CSFR5000	FR5000/6000 programming software	\$72.00
IASTUN1001	Icom to tune your system products	\$0.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-IAS	Icom to program your system products	\$0.00
RSMGR1	Remote system manager software for IDAS MultiTrunk	\$4,995.00
<b>Trunking/Network Controller</b>		
UCFR5000 01	Trunking/Network controller board (1 per repeater)	\$500.00

# FR5000 - FR6000 Series

## IDAS Digital & Analog Repeater

### SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W at 50% duty cycle 25W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
LCD Display:	16-digit dot matrix
Programmable buttons:	5
Mil Spec:	810 C, D, E, F
Scan:	Normal & priority
Size:	19-inch rack mount, 2U height
Weight:	12.3 lb (approx)
Versions:	FR repeater UR repeater module FR/UR kit (FR + UR) Two channel kits



### FEATURES

#### General Features

- CW ID included
- Automatic battery backup
- DB-25 accessory connector
- Built-In community tone panel
- Internal space for duplexer & pre-selector
- Master/Slave backup operation
- Password Kill/Stun security function
- Temperature alert
- Fits 2 RF modules in 2 unit
- PTT priority setting
- Low voltage alert (analog)

#### Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

### SIGNALING

Digital RAN Code decode  
5-tone & DTMF Encode/Decode (analog)  
CTCSS, DTCS tone

### ENCRYPTION

Simple Inversion: UT-109R 32 Codes (analog)  
Rolling Code: UT-110R 1020 Codes (analog)  
IDAS digital mode, 15-bit encryption key provides over 32K codes

### WARRANTY

2-Year

MULTITRUNK

**IDAS**  
ICOM DIGITAL ADVANCED SYSTEM

# FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

## Configurations

Model	Description	MSRP
FR5000 14	136-174MHz analog/digital IDAS repeater (power supply not included)	\$2,165.00
FR5000 01 2CH KIT	136-174MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	\$3,130.00
FR5000 01 UR KIT	136-174MHz, 2 channel analog/digital repeater (FR5000 + URFR5000)	\$2,695.00
FR6000 14	400-470MHz analog/digital IDAS repeater (power supply not included)	\$2,165.00
FR6000 19	450-512MHz analog/digital IDAS repeater (power supply not included)	\$2,165.00
FR6000 01 2CH KIT	400-470MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	\$3,130.00
FR6000 11 2CH KIT	450-512MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	\$3,130.00
FR6000 01 UR KIT	400-470MHz, 2 channel analog/digital repeater (FR6000 01 + URFR6000 41)	\$2,695.00
FR6000 11 UR KIT	450-512MHz, 2 channel analog/digital repeater (FR6000 11 + URFR6000 51)	\$2,695.00
URFR5000 63	136-174MHz analog/digital repeater channel module	\$1,205.00
URFR6000 63	400-470MHz repeater module	\$1,205.00
URFR6000 67	450-512MHz repeater module	\$1,205.00

## Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	\$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	\$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	\$465.00
INSTALL-IAS	Install a component into a repeater or an item into a cabinet	\$0.00

### Antenna Switches

IASANTSW1	Single antenna switch for base station operation	\$580.00
IASANTSW2	Dual antenna switch for base station operation	\$1,019.00

### Cabinets

IASMNT1030	30" (17RU) locking indoor cabinet	\$1,165.00
IASMNT1046	46" (26RU) locking indoor cabinet	\$2,280.00
IASMNT1060	60" (34RU) locking indoor cabinet	\$3,190.00

### Cables

OPC2274	5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching.	\$235.00
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### Duplexers

IASDUP1001	136-148 6 cavity 50W internal duplexer, 3MHz TX-RX separation	\$525.00
IASDUP1002	148-160 6 cavity 50W internal duplexer, 3MHz TX-RX separation	\$525.00
IASDUP1003	160-174 6 cavity 50W internal duplexer, 3MHz TX-RX separation	\$525.00
IASDUP1004	136-148 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1005	148-160 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1006	160-174 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1007	136-148 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1008	148-160 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1009	160-174 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1015	152-175MHz 50W internal duplexer for the FR5000 or CY5000 (6-15MHz minimum separation)	\$510.00



# FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

## Accessories

Model	Description	MSRP
IASDUP1035	400-512 4 cavity 100W duplexer, 3MHz TX-RX separation	\$1,895.00
IASDUP1036	400-440 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1037	440-470 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1038	470-490 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1039	490-512 6 cavity 50W internal duplexer, 5MHz TX-RX separation	\$525.00
IASDUP1040	400-440 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1041	440-470 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1042	470-490 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1043	490-512 6 cavity 50W internal duplexer, 10MHz TX-RX separation	\$525.00
IASDUP1044	440-512 6 cavity 100W duplexer with 3MHz TX-RX separation	\$2,050.00
IASDUP50FR	FR5000/6000 internal duplexer assembly kit including RF jumpers, mounting bracket and screws	\$100.30
<b>Encryption &amp; Internal Modules</b>		
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00
<b>External Speakers</b>		
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00
<b>IP Linking</b>		
CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board)	\$65.00
CFFR5000MT	Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board)	\$1,375.00
<b>Manuals</b>		
94415355	FR6000 CD service manual	\$16.95
94415514	FR5000 CD service manual	\$28.97
97715348	FR6000 service manual - hardcopy	\$150.99
97715370	FR5000 service manual - hardcopy	\$38.29
98815350	FR5000/6000 owner's manual	\$8.17
<b>Microphones</b>		
HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
<b>Miscellaneous</b>		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
VEPG3	ROIP gateway	\$1,900.00
<b>Mounting hardware</b>		
IASMNT1005	Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000	\$36.00
<b>Pilot Tone Generator</b>		
JPSPTG10	Pilot tone generator for analog operation only (requires universal mounting plate for installation)	\$1,165.00



# FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

## Accessories

Model	Description	MSRP
<b>Power Amplifiers</b>		
IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
IAS2PA351	375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA352	375-400MHz 100W 2RU additional power amplifier (fits next to IASE2PA351 in chassis)	\$3,400.00
IAS2PA505	400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA506	440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA507	470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA508	480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA509	400-430MHz 100W 2RU additional power amplifier (fits next to IASE2PA505 in chassis)	\$3,400.00
IAS2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IAS2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IAS2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
<b>Power Equipment &amp; Rack Mounting</b>		
IASDP1001	DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads.	\$1,825.00
IASIV1300	Site inverter 300W 12/24VDC; 1RU 19" rack mountable	\$675.00
IASMNT1100	20A power supply rackmount kit; holds 1 or 2 power supplies	\$27.00
IASMNT1105	Battery charger rackmount kit holds 1 to 2 chargers	\$265.00
IASPS1020	20A power supply 13.8VDC, 120/220V; 2RU rack mountable	\$500.00
IASPS1021	20A power supply 13.8VDC; 2nd PS for IASPS1020	\$365.00
IASPS1022	12V/30A PS/battery charger; 1RU	\$830.00
IASPS1035	Single 35A module power supply - 2RU rack mountable (4 module capable)	\$1,300.00
IASPS1036	Additional 35A power module (mounts inside the IASPS1070)	\$430.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
<b>Pre-Selectors</b>		
IASPR1001	136-150MHz 4 cavity pre-selector (assembly kit required with FR5000)	\$700.00
IASPR1002	150-174MHz 4 cavity pre-selector (assembly kit required with FR5000)	\$700.00
IASPR1010	400-440MHz 4 cavity pre-selector (assembly kit required with FR6000)	\$700.00
IASPR1011	440-520MHz 4 cavity pre-selector (assembly kit required with FR6000)	\$700.00
IASPR50FR	FR5000/6000 internal pre-selector assembly kit including RF jumpers, mounting bracket and screws	\$145.00
<b>Racks</b>		
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity	\$395.00
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$750.00
IASMNT1063	63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity	\$995.00
IASMNT1070	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
<b>Remote Communication</b>		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	\$120.00
RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	\$1,820.00
<b>Repeaters</b>		
URFR6000 63	400-470MHz repeater module	\$1,205.00

# FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

## Accessories

Model	Description	MSRP
URFR6000 67	450-512MHz repeater module	\$1,205.00
<b>Software &amp; Cables</b>		
CSFR5000	FR5000/6000 programming software	\$72.00
IASTUN1001	Icom to tune your system products	\$0.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-IAS	Icom to program your system products	\$0.00
RSMGR1	Remote system manager software for IDAS MultiTrunk	\$4,995.00
<b>Trunking/Network Controller</b>		
IAS CROSSBAND CONTROLLER	Analog gateway that provides an easy migration path from analog to digital technology	\$501.00
UCFR5000 01	Trunking/Network controller board (1 per repeater)	\$500.00

# FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

## SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
LCD Display:	12-digit dot matrix
Programmable buttons:	5
Mil Spec:	810 C, D, E, F, G
Scan:	Normal & priority
Size:	19-inch rack mount, 2U height
Weight:	22 lb (approx)



## FEATURES

### General Features

- IDAS, analog FM and mixed mode
- CW ID included
- D-SUB 25-pin accessory connector
- Built-in inversion voice scrambler (Analog mode)
- Built-in audio compander (Analog mode)
- PTT priority setting (Local Mic., external PTT or repeater operation)
- Convenient key assign stickers supplied
- Beat cancel capability
- Low voltage alert (Analog mode)

### Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP
- $\pm 0.5$ ppm high frequency stability

## SIGNALING

Digital RAN Code decode  
5-tone & DTMF Encode/Decode (analog)  
CTCSS, DTCS tone

## ENCRYPTION

IDAS digital mode, 15-bit encryption key  
provides over  
32K codes

## WARRANTY

2-Year

MULTITRUNK

**IDAS**  
ICOM DIGITAL ADVANCED SYSTEM

# FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

## Configurations

Model	Description	MSRP
FR5200H 51	136-174MHz 50W analog, IDAS repeater 100% duty cycle	\$3,780.00
FR6200H 51	400-470MHz 50W analog, IDAS repeater 100% duty cycle	\$3,780.00
FR6200H 61	450-512MHz 50W analog, IDAS repeater 100% duty cycle	\$3,780.00

## Accessories

Model	Description	MSRP
INSTALL-IAS	Install a component into a repeater or an item into a cabinet	\$0.00

### Antenna Switches

IASANTSW1	Single antenna switch for base station operation	\$580.00
IASANTSW2	Dual antenna switch for base station operation	\$1,019.00

### Cabinets

IASMNT1030	30" (17RU) locking indoor cabinet	\$1,165.00
IASMNT1046	46" (26RU) locking indoor cabinet	\$2,280.00
IASMNT1060	60" (34RU) locking indoor cabinet	\$3,190.00

### Duplexers

IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1035	400-512 4 cavity 100W duplexer, 3MHz TX-RX separation	\$1,895.00
IASDUP1044	440-512 6 cavity 100W duplexer with 3MHz TX-RX separation	\$2,050.00

### External Speakers

SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00
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### IP Linking

CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board)	\$65.00
CFFR5000MT	Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board)	\$1,375.00

### Microphones

HM152	Standard microphone for low/mid range mobile radios	\$44.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00

### Miscellaneous

VEPG3	ROIP gateway	\$1,900.00
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### Power Amplifiers

IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
IAS2PA351	375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA352	375-400MHz 100W 2RU additional power amplifier (fits next to IASE2PA351 in chassis)	\$3,400.00
IAS2PA505	400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA506	440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA507	470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA508	480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA509	400-430MHz 100W 2RU additional power amplifier (fits next to IASE2PA505 in chassis)	\$3,400.00

# FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

## Accessories

Model	Description	MSRP
IASE2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IASE2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IASE2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
<b>Power Equipment &amp; Rack Mounting</b>		
IASDP1001	DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads.	\$1,825.00
IASIV1300	Site inverter 300W 12/24VDC; 1RU 19" rack mountable	\$675.00
IASMNT1100	20A power supply rackmount kit; holds 1 or 2 power supplies	\$27.00
IASMNT1105	Battery charger rackmount kit holds 1 to 2 chargers	\$265.00
IASPS1020	20A power supply 13.8VDC, 120/220V; 2RU rack mountable	\$500.00
IASPS1021	20A power supply 13.8VDC; 2nd PS for IASPS1020	\$365.00
IASPS1022	12V/30A PS/battery charger; 1RU	\$830.00
IASPS1035	Single 35A module power supply - 2RU rack mountable (4 module capable)	\$1,300.00
IASPS1036	Additional 35A power module (mounts inside the IASPS1070)	\$430.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
<b>Racks</b>		
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity	\$395.00
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$750.00
IASMNT1063	63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity	\$995.00
IASMNT1070	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
<b>Software &amp; Cables</b>		
CSFR5000	FR5000/6000 programming software	\$72.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-IAS	Icom to program your system products	\$0.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
RSMGR1	Remote system manager software for IDAS MultiTrunk	\$4,995.00
<b>Trunking/Network Controller</b>		
96916626	Installation kit to install UCFR5000 into FR5200H/FR6200H	\$71.82
UCFR5000 01	Trunking/Network controller board (1 per repeater)	\$500.00

# IAS 120D – 150D Series

## High-Power Digital & Analog Repeater

### SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	100/120/150W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
LCD Display:	16-digit dot matrix Display
Programmable buttons:	5
Scan:	Normal & priority



### FEATURES

- SNMP capable
- Two amps can be mounted side by side—eliminating an additional rack space concerns and also marry up nicely with the dual FR5000 configuration
- Full remote control and monitoring of over 16 sensors and alarms via SNMP v2C
- 5 individual internal heat sensors
- 4 GPIO for customized usage
- 70 Amp power supply with smart charging external battery technology – modular design load capacity and expandable to 140 amp load capacity
- 15 Amp A/C surge suppression panel with 1750 joules A/C surge suppression – SASD technology
- E2-IP.PA is a 2 RU unit, with an input of 1-3 Watts and an output of 2 - 120 Watts (UHF) or 2 - 150 Watts (VHF) output.
- Operates on DC voltage

### SIGNALING

Digital RAN Code decode  
5-tone & DTMF Encode/Decode (analog)  
CTCSS

### ENC RYPTION

Simple Inversion: UT-109R 32 Codes (analog)  
Rolling Code: UT-110R 1020 Codes (analog)  
IDAS digital mode, 15-bit encryption key  
provides over 32K codes

### COMES WITH

FR5000 or FR6000  
VHF or UHF power amplifier  
Power supply (IASPS1070)  
AC surge suppression panel  
Cabinet/rack not included  
Warranty : 2-Year

*Third party components noted are subject to change or substitution.*



# IAS 120D – 150D Series

High-Power Digital & Analog Repeater

## Configurations

Model	Description	MSRP
IAS 120DU1 PS	440-470MHz 120W public safety repeater (8RU) with 70Amp power supply and smart charging external battery. Cabinet/rack sold separately.	\$6,795.00
IAS 120DU2 PS	470-490MHz 120W public safety repeater (8RU) with 70Amp power supply and smart charging external battery. Cabinet/rack sold separately.	\$6,795.00
IAS 150DV PS	136-174MHz 150W public safety repeater (8RU) with 70Amp power supply and smart charging external battery. Cabinet/rack sold separately.	\$6,665.00

## Accessories

Model	Description	MSRP
INSTALL-IAS	Install a component into a repeater or an item into a cabinet	\$0.00
<b>Antenna Switches</b>		
IASANTSW1	Single antenna switch for base station operation	\$580.00
IASANTSW2	Dual antenna switch for base station operation	\$1,019.00
<b>Cabinets</b>		
IASMNT1030	30" (17RU) locking indoor cabinet	\$1,165.00
IASMNT1046	46" (26RU) locking indoor cabinet	\$2,280.00
IASMNT1060	60" (34RU) locking indoor cabinet	\$3,190.00
<b>Duplexers</b>		
IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1035	400-512 4 cavity 100W duplexer, 3MHz TX-RX separation	\$1,895.00
IASDUP1044	440-512 6 cavity 100W duplexer with 3MHz TX-RX separation	\$2,050.00
<b>Encryption &amp; Internal Modules</b>		
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00
<b>IP Linking</b>		
CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board)	\$65.00
CFFR5000MT	Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board)	\$1,375.00
<b>Manuals</b>		
94415355	FR6000 CD service manual	\$16.95
94415514	FR5000 CD service manual	\$28.97
97715348	FR6000 service manual - hardcopy	\$150.99
97715370	FR5000 service manual - hardcopy	\$38.29
98815350	FR5000/6000 owner's manual	\$8.17
<b>Microphones</b>		
HM148G	Self grounding microphone for mobile radios	\$67.00
HM148T	DMTF mobile microphone	\$110.00
HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM152T	DTMF modular microphone for LM mobile radios	\$90.00



# IAS 120D – 150D Series

## High-Power Digital & Analog Repeater

### Accessories

Model	Description	MSRP
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
<b>Miscellaneous</b>		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
VEPG3	ROIP gateway	\$1,900.00
<b>Mounting hardware</b>		
IASMNT1005	Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000	\$36.00
<b>Pilot Tone Generator</b>		
JPSPTG10	Pilot tone generator for analog operation only (requires universal mounting plate for installation)	\$1,165.00
<b>Power Amplifiers</b>		
IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
IAS2PA351	375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA352	375-400MHz 100W 2RU additional power amplifier (fits next to IASE2PA351 in chassis)	\$3,400.00
IAS2PA505	400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA506	440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA507	470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA508	480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IAS2PA509	400-430MHz 100W 2RU additional power amplifier (fits next to IASE2PA505 in chassis)	\$3,400.00
IAS2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IAS2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IAS2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
<b>Power Equipment &amp; Rack Mounting</b>		
IASDP1001	DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads.	\$1,825.00
IASIV1300	Site inverter 300W 12/24VDC; 1RU 19" rack mountable	\$675.00
IASMNT1105	Battery charger rackmount kit holds 1 to 2 chargers	\$265.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
<b>Pre-Selectors</b>		
IASPR1001	136-150MHz 4 cavity pre-selector (assembly kit required with FR5000)	\$700.00
IASPR1002	150-174MHz 4 cavity pre-selector (assembly kit required with FR5000)	\$700.00
IASPR1010	400-440MHz 4 cavity pre-selector (assembly kit required with FR6000)	\$700.00
IASPR1011	440-520MHz 4 cavity pre-selector (assembly kit required with FR6000)	\$700.00
<b>Racks</b>		
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity	\$395.00
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$750.00
IASMNT1063	63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity	\$995.00
IASMNT1070	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
<b>Remote Communication</b>		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	\$120.00
RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system)	\$1,820.00



# IAS 120D – 150D Series

High-Power Digital & Analog Repeater

## Accessories

Model	Description	MSRP
	requires 1 CT-24)	
<b>Software &amp; Cables</b>		
CSFR5000	FR5000/6000 programming software	\$72.00
IASTUN1001	Icom to tune your system products	\$0.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-IAS	Icom to program your system products	\$0.00
<b>Trunking/Network Controller</b>		
UCFR5000 01	Trunking/Network controller board (1 per repeater)	\$500.00

# FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

## SPECS

Frequencies:	146-174, 440-475MHz
Output Power:	110W VHF 100W UHF
Channels:	500 channels
Channel Spacing:	12.5kHz
Display:	5 color LEDs
Mil Spec:	810 G
Size:	18.98x3.46x16.26 in
Weight:	11.0 kg; 24.3 lb (approx)



## FEATURES

P25 conventional, analog FM and mixed mode

500 memory channels capacity

P25 conventional base mode:

- Emergency
- Call alert
- Radio check
- Radio inhibit (Stun)
- Radio uninhibit (Revive)
- Status update
- Status request
- SBC log (Call log)
- OTAR (Over-the-Air-Rekeying)
- Individual, group and all calls

D-SUB 25-pin accessory connector

Programmable CTCSS, DTCS and NAC

CW ID transmission

High reliability, rugged construction

±1.5ppm frequency stability (Digital mode)

Low standby current (280mA)

P25 self-test mode and key test mode

Automatic error detection

5 color LEDs

2U low profile for rack mount

## Comes With

DC power cable connector

2-Year warranty



# FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

## Configurations

Model	Description	MSRP
FR9010 11	146-174MHz 110W P25 repeater	\$8,700.00
FR9020 11	440-475MHz 100W P25 repeater	\$8,700.00

## Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	\$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	\$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	\$465.00

### Antenna Switches

IAS ANTRLY-D	1RU dual antenna switch for FR9010/9020	\$945.00
IAS ANTRLY-S	1RU single antenna switch for FR9010/9020	\$500.00

### Cabinets

IASMNT1030	30" (17RU) locking indoor cabinet	\$1,165.00
IASMNT1046	46" (26RU) locking indoor cabinet	\$2,280.00
IASMNT1060	60" (34RU) locking indoor cabinet	\$3,190.00

### Duplexers

IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1035	400-512 4 cavity 100W duplexer, 3MHz TX-RX separation	\$1,895.00

### Manuals

94416670	Service manual CD for FR9010	\$28.97
94416673	Service manual CD for FR9020	\$28.97
97716669	Service manual hard copy FR9010	\$56.67
97716672	Service manual hard copy for FR9020	\$54.64
98816671	Owner's manual FR9010/9020	\$17.12

### Microphones

HM-9000	Speaker microphone for the FR9010/9020 repeaters	\$80.00
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### Power Amplifiers

IASE2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IASE2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
IASE2PA351	375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IASE2PA352	375-400MHz 100W 2RU additional power amplifier (fits next to IASE2PA351 in chassis)	\$3,400.00
IASE2PA505	400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IASE2PA506	440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IASE2PA507	470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IASE2PA508	480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,800.00
IASE2PA509	400-430MHz 100W 2RU additional power amplifier (fits next to IASE2PA505 in chassis)	\$3,400.00
IASE2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IASE2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IASE2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00

# FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

## Accessories

Model	Description	MSRP
<b>Power Equipment &amp; Rack Mounting</b>		
IASDP1001	DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads.	\$1,825.00
IASIV1300	Site inverter 300W 12/24VDC; 1RU 19" rack mountable	\$675.00
IASMNT1105	Battery charger rackmount kit holds 1 to 2 chargers	\$265.00
IASPS1035	Single 35A module power supply - 2RU rack mountable (4 module capable)	\$1,300.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
<b>Racks</b>		
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity	\$395.00
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$750.00
IASMNT1063	63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity	\$995.00
IASMNT1070	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
<b>Software &amp; Cables</b>		
CSFR9010	Programming software for the FR9010/9020	\$72.00
OPC-9000	Programming cable for the FR9010/9020 repeaters	\$270.00
PROG-IAS	Icom to program your system products	\$0.00

# RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

## SPECS

Frequencies:	136-174MHz (VHF), 450-520MHz (UHF)
Output Power Adjustable:	0.5-5W
Channels:	256
Weight:	1.45Kg (Receiver & Exciter); 3.55Kg (Pwr Amp); 4.65Kg (PA 501); 2.6Kg (SMPS-12); 8.0Kg (PS-12); 4.55Kg (Mounting rack)



## FEATURES

- Auto sensing repeater (P25 / Analog) 100% duty cycle operation
- Remote diagnostics via ethernet: alarm monitor & report
- Battery backup – charging & auto switch over capable
- Built-in 35 amp power supply: 240-120V AC operation
- IP commander – ethernet programming with rollback feature
- Modular design – space saving 4RU
- Full duplex analog repeater base station
- Firmware upgradeable to P25 via ethernet
- IP firmware & software updating capable

## SIGNALING

- DTMF Encoded / Decode
- Built-In 2-Tone, 5-Tone

## COMES WITH

- Owner's manual
- Warranty: 1 year



# RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

## Configurations

Model	Description	MSRP
RFT P25 400-430	100W P25/analog 400-430MHz repeater with a power supply	\$13,305.00
RFT P25 440-490	100W P25/analog 440-490MHz repeater with a power supply	\$13,305.00
RFT P25 485-520	100W P25/analog 485-520MHz repeater with a power supply	\$13,305.00
RFT P25 136-174	2-120W P25/analog 136-174MHz repeater with a power supply	\$12,905.00
RFT 400-430	100W analog 400-430MHz repeater with a power supply (P25 upgradeable)	\$10,395.00
RFT 440-490	100W analog 440-490MHz repeater with a power supply (P25 upgradeable)	\$10,395.00
RFT 485-520	100W P25/analog 485-520MHz repeater with a power supply	\$10,395.00
RFT 136-174	100W analog 136-174MHz repeater with a power supply (P25 upgradeable)	\$9,955.00

## Accessories

Model	Description	MSRP
<b>Antenna Switches</b>		
IAS ANTRLY-D	1RU dual antenna switch for FR9010/9020	\$945.00
IAS ANTRLY-S	1RU single antenna switch for FR9010/9020	\$500.00
IASANTSW1	Single antenna switch for base station operation	\$580.00
IASANTSW2	Dual antenna switch for base station operation	\$1,019.00
<b>Cabinets</b>		
IASMNT1030	30" (17RU) locking indoor cabinet	\$1,165.00
IASMNT1046	46" (26RU) locking indoor cabinet	\$2,280.00
IASMNT1060	60" (34RU) locking indoor cabinet	\$3,190.00
<b>Duplexers</b>		
IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1035	400-512 4 cavity 100W duplexer, 3MHz TX-RX separation	\$1,895.00
IASDUP1044	440-512 6 cavity 100W duplexer with 3MHz TX-RX separation	\$2,050.00
<b>Manuals</b>		
RFT P25 UHF MANUAL	RFT UHF P25/analog manual (included with repeater purchase)	\$112.00
RFT P25 VHF MANUAL	RFT VHF P25/analog manual (included with repeater purchase)	\$112.00
<b>Miscellaneous</b>		
RFT P25-C	P25 firmware upgrade for RFT analog P25 upgradeable repeaters	\$3,428.00
<b>Power Equipment &amp; Rack Mounting</b>		
IASDP1001	DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads.	\$1,825.00
IASIV1300	Site inverter 300W 12/24VDC; 1RU 19" rack mountable	\$675.00
<b>Racks</b>		
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity	\$395.00
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$750.00
IASMNT1063	63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity	\$995.00
IASMNT1070	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00

# RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

## Accessories

Model	Description	MSRP
<b>Software &amp; Cables</b>		
IASTUN1001	Icom to tune your system products	\$0.00
PROG-IAS	Icom to program your system products	\$0.00
RFT IP E2-P25	Programming software for RFT 100W P25/analog repeaters	\$445.00

## Discontinued Radios





# F3031S – F4031S Series

Analog Submersible Portables are discontinued and no longer available from Icom.  
Compatible accessories outlined below may still be available.

## Accessories

Model	Description	MSRP
<b>Antennas</b>		
FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC26US	400-450MHz stubby antenna for LM portables	\$14.50
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
<b>Batteries</b>		
BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	\$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	\$35.00
<b>Belt Clips</b>		
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	\$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	\$13.00
MB93	Swivel belt clip	\$11.00
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	\$50.00
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	\$27.00
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	\$25.00
<b>Chargers</b>		
AD106	Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery	\$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	\$23.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug	\$76.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug	\$15.00
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug	\$16.00

# F3031S – F4031S Series

Analog Submersible Portables are discontinued and no longer available from Icom.  
Compatible accessories outlined below may still be available.

## Accessories

Model	Description	MSRP
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
BC197 22	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
<b>Encryption &amp; Internal Modules</b>		
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00
UT124R 02	Man down unit	\$90.00
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM-HD717WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>Software &amp; Cables</b>		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
<b>Wire Kits</b>		
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F3101D – F4101D Series

IDAS™ Entry Level Portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

## Accessories

Model	Description	MSRP
<b>Antennas</b>		
FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00
<b>Batteries</b>		
BP263	Battery case that holds 6 AA alkaline batteries	\$30.00
BP265	Li-ion 7.4V 1900mAh	\$62.00
<b>Belt Clips</b>		
MB124	Alligator type belt clip	\$12.00
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF3000 SWIVEL	Leather carrying case with a swivel for the F3001/4001 & F3101D/4101D radios	\$50.00
NCF3000 CLIP	Nylon carrying case with a clip for the F3001/4001 & F3101D/4101D radios	\$27.00
<b>Chargers</b>		
AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	\$23.00
BC123SA 51	AC adapter for rapid chargers; 100-240V with US style plug	\$25.00
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	\$26.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC193	Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug	\$67.00
BC193E	Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug	\$67.00
BC197 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	\$510.00
BC197 51	110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed)	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00

# F3101D – F4101D Series

IDAS™ Entry Level Portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

## Accessories

Model	Description	MSRP
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC2004	Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80	\$27.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	\$145.00
<b>Manuals</b>		
94415593	F3101D CD service manual	\$16.95
94415609	F4101D CD service manual	\$50.22
97715592	F3101D service manual - hardcopy	\$32.64
97715608	F4101D service manual hardcopy	\$81.44
98815591	F3101D/4101D owner's manual	\$17.12
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM171GP	2-pin GPS mic for F3101D/4101D series	\$360.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	\$59.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	\$48.00
<b>Software &amp; Cables</b>		
CSF3101D/F5121D	F3101D/F5121D series programming software	\$72.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
<b>Wire Kits</b>		
HM128L	Earphone/mic with 2-pin right angle connector	\$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F11-F21 Discontinued

The F11/21 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

## Accessories

Model	Description	MSRP
<b>Antennas</b>		
AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	\$22.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
<b>Batteries</b>		
BP208N	Battery case that holds 6 AA alkaline batteries.	\$22.00
BP210N	NiMH 7.2V 1650mAh battery	\$75.00
<b>Belt Clips</b>		
MB103	Alligator belt clip	\$12.50
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	\$12.00
MB86	Swivel belt clip that screws into back of radio	\$11.00
SPRING CLIP L	Long spring clip insert length 3.5 inches	\$5.00
SPRING CLIP S	Short spring clip insert length 2.5 inches	\$5.00
<b>Cables</b>		
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF21 CLIP	Leather carrying case with a clip F11/21 radios	\$45.00
NCF21 LOOP	Nylon carrying case with a loop F11/21 radios	\$25.00
<b>Chargers</b>		
AD101	Adapter cup for the BC119N or BC121N for the BP210N & BP211 batteries	\$28.00
AD94 11	Adapter cup for the BC119N or BC121N for the BP209N/BP210N batteries	\$28.00
AD99N	Spacer for the AD94 adapter cup	\$6.40
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC146 01	Drop-in trickle charger base for the F11/21/3G/4G/30G/40G series. Requires BC147 AC adapter.	\$32.00
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug	\$15.00
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug	\$16.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	\$90.00

# F11-F21 Discontinued

The F11/21 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

## Accessories

Model	Description	MSRP
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	\$145.00
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	\$44.00
<b>Manuals</b>		
94414314	F11/F11S/F21/F21S CD service manual	\$50.22
97713705	F21/F21S service manual hardcopy	\$33.68
97713930	F11/F11S service manual hardcopy	\$34.78
98813703	F11/F11S & F21/F21S owner's manual	\$9.33
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	\$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	\$88.00
<b>Software &amp; Cables</b>		
CSF11	F11/F21 Program Sftware	\$72.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
<b>Wire Kits</b>		
HM128L	Earphone/mic with 2-pin right angle connector	\$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

# F14/F24 - F33G/F43G - F43TR – F3021/F4021 Accessories

The F14/F24 - F33G/43G, F43TR & F3021 / F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

## Accessories

Model	Description	MSRP
<b>Antennas</b>		
FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	\$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	\$55.00
FASC72U	470-512MHz antenna for LM portables	\$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	\$26.00
LARSEN SPHL10160IC	151-163MHz helical ¼ wave antenna center tuned to 157MHz	\$26.00
<b>Batteries</b>		
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	\$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	\$35.00
<b>Belt Clips</b>		
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	\$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	\$13.00
MB93	Swivel belt clip	\$11.00
MB94	Alligator belt clip	\$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	\$18.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
<b>Cables</b>		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
LCF14 SWIVEL	Leather carrying case with a swivel F14/24 & F3011/4011 radios	\$50.00
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	\$50.00
NCF14 CLIP	Nylon carrying case with a clip F14/24 & F3011/4011 radios	\$27.00
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	\$27.00
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	\$25.00
<b>Chargers</b>		
AD106	Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery	\$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	\$23.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug	\$15.00



## F14/F24 - F33G/F43G - F43TR – F3021/F4021 Accessories

The F14/F24 - F33G/43G, F43TR & F3021 / F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

### Accessories

Model	Description	MSRP
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug	\$16.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
BC197 22	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug	\$510.00
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00

### Encryption & Internal Modules

UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	\$173.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	\$173.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	\$173.00
UT124 01	Man down unit	\$90.00
UT124R 02	Man down unit	\$90.00

### Headsets

HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	\$90.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	\$145.00
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	\$44.00

### Manuals

94414845	F33G/F43G CD service manual	\$0.00
94414913	F14/F24 CD service manual	\$16.95
94415195	F3021/F4021 CD service manual	\$28.97
97714843	F43GS/GT service manual hardcopy	\$31.32
97714895	F33GS/GT service manual hardcopy	\$31.07
97714922	F14/F14S service manual hardcopy	\$24.82
97714932	F24/F24S service manual hardcopy	\$29.79
97715148	F3021 service manual - hardcopy	\$34.59
97715171	F4021 service manual - hardcopy	\$43.66
98814817	F43GS/GT owner's manual	\$11.17
98814946	F14/F24 owner's manual	\$31.86



## F14/F24 - F33G/F43G - F43TR – F3021/F4021 Accessories

The F14/F24 - F33G/43G, F43TR & F3021 / F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

### Accessories

Model	Description	MSRP
98815180	F3021/4021 owner's manual	\$6.42
<b>Microphones</b>		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	\$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	\$59.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	\$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	\$88.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
<b>RedHawk</b>		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	\$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	\$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	\$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	\$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	\$120.00
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	\$93.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	\$30.00
<b>Software &amp; Cables</b>		
CSF14	F14/F24 Program Sftwre w/ MDC	\$75.00
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	\$72.00
CSF33G	F33G/F43G Prg Software	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
<b>Wire Kits</b>		
HM128L	Earphone/mic with 2-pin right angle connector	\$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	\$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	\$53.00

## F3/S – F4/S Series

The F3/S & F4/S portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

### Accessories

Model	Description	MSRP
<b>Antennas</b>		
FASC25U	400-430MHz antenna for LM portables	\$13.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
<b>Belt Clips</b>		
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	\$12.00
SPRING CLIP L	Long spring clip insert length 3.5 inches	\$5.00
SPRING CLIP S	Short spring clip insert length 2.5 inches	\$5.00
<b>Chargers</b>		
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug	\$76.00
BC122A	AC Adptr-Trickle Chrgr F3/F4/S/G/F11/F21/M1	\$16.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
<b>Encryption &amp; Internal Modules</b>		
UT110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	\$173.00
<b>Manuals</b>		
94412917	F3/F3S/F4/F4S CD service manual	\$50.22
97712311	F3/F3S/F4/F4S service manual hardcopy	\$43.94
98812456	F3/F3S/F4/F4S owner's manual	\$11.94
<b>Microphones</b>		
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	\$45.00
<b>Software &amp; Cables</b>		
CSF3	F3/S/F4/S Program Sftwre	\$40.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
<b>Wire Kits</b>		
HM128	Earphone-microphone with 2-pin straight connector	\$30.00
OTTO V110396	3-wire mini lapel mic kit (earphone/cable with mic/cable with barrel style PTT) with 2.5/3.5mm straight connector - F3/S/F4/S	\$170.00

# F30G – F40G Series

The F30G & F40G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

## Accessories

Model	Description	MSRP
<b>Antennas</b>		
AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	\$22.00
FASC25V	136-150MHz antenna for LM portables	\$13.00
FASC55V	146-174MHz standard antenna for LM portables	\$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	\$14.50
FASC57U	430-470MHz standard antenna for LM radios (red ring)	\$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	\$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
FASC73US	450-470MHz stubby antenna for LM portable radios	\$14.50
<b>Batteries</b>		
BP210N	NiMH 7.2V 1650mAh battery	\$75.00
BP210N FM	Intrinsically safe NiMH 7.2V 1650mAh battery for F30G/F40G IS radios	\$131.00
<b>Belt Clips</b>		
MB103	Alligator belt clip	\$12.50
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	\$12.00
MB86	Swivel belt clip that screws into back of radio	\$11.00
SPRING CLIP L	Long spring clip insert length 3.5 inches	\$5.00
SPRING CLIP S	Short spring clip insert length 2.5 inches	\$5.00
<b>Cables</b>		
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
<b>Carrying Cases</b>		
NCF30G LOOP	Nylon carrying case with a loop for the F30G/40G & M36 radios	\$25.00
<b>Chargers</b>		
AD94 11	Adapter cup for the BC119N or BC121N for the BP209N/BP210N batteries	\$28.00
AD99N	Spacer for the AD94 adapter cup	\$6.40
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
<b>Encryption &amp; Internal Modules</b>		
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	\$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	\$173.00
UT124 01	Man down unit	\$90.00
<b>Headsets</b>		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V410399	Skull Mic System w/earcup and 80mm body PTT for F30G/40G and M88	\$650.00

## F30G – F40G Series

The F30G & F40G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

### Accessories

Model	Description	MSRP
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	\$68.00
<b>Manuals</b>		
94413511	F40GS/GT CD service manual	\$50.22
94414803	F30G/F40G CD service manual	\$50.22
97713510	F30GS/GT service manual hardcopy	\$32.55
97713513	F40GS/GT service manual hardcopy	\$31.86
98813509	F30G/F40G owner's manual	\$11.17
<b>Microphones</b>		
EM80	9-pin full size speaker mic for F30G series. IS approved to work with F30G IS radios.	\$15.00
HM131SC	Speaker/microphone with earphone jack and clip (9-pin)	\$79.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
<b>Miscellaneous</b>		
AD52	Earphone adapter for the F3161/F4161/F30G/M88	\$25.00
<b>Software &amp; Cables</b>		
CSF30G	F30G/F40G Prg Software	\$72.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	\$168.00
<b>Wire Kits</b>		
OTTO V1T12CD137	Throat Mic Sys w/tube ear piece and body PTT with 9 pin connector for F30G/40G	\$505.00





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