ICOM®

U.S. Land Mobile Retail
Product Catalog

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Icom America Inc.

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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

Meets **MIL-STD 810**

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

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		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$16.00
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
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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

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Accessories

Model	Description	MSRP
Carrying Cases		
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
Chargers		
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
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 V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410395	Behind-the-head style, noise attenuating headset (2-pin right angle connector)	$360.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
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		
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
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
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00

F3011 – F4011 Series
Entry Level Analog Portables

Accessories

Model	Description	MSRP
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 V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210200	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle connector	$93.00
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

Programming Software & Cables

Model	Description	MSRP
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

RedHawk

Model	Description	MSRP
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 microhpone 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

Wire Kits

Model	Description	MSRP
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
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

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

Meets
MIL-STD 810

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		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$16.00
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
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
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
Chargers		
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

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F3001 – F4001 Series
Entry Level Analog Portables

Accessories

Model	Description	MSRP
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug	$26.00
BC147SA 14	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

Headsets

Model	Description	MSRP
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 V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00

Manuals

Model	Description	MSRP
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

Microphones

Model	Description	MSRP
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 V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00

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F3001 – F4001 Series

Entry Level Analog Portables

Accessories

Model	Description	MSRP
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
Programming Software & Cables		
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
RedHawk		
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 microhpone 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
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
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

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, FA-SC57U or FA-SC72U)
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
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
Cables		
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
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

F1000/S/T – F2000/S/T Series
Entry Level Analog Portables

Accessories

Model	Description	MSRP
NCF1000TC	Nylon carrying case with a clip and cutout for the display and keypad F1000T/2000T	$27.00

Chargers

Model	Description	MSRP
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

Headsets

Model	Description	MSRP
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

Microphones

Model	Description	MSRP
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

Programming Software & Cables

Model	Description	MSRP
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

Wire Kits

Model	Description	MSRP
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
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
Cables		
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
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
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

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F1000D – F2000D Series

IDAS™ Entry Level Portables

Accessories

Model	Description	MSRP
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
Headsets		
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
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
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
Programming Software & Cables		
CSF2000	Programming software for the F1000/2000 series	$72.00
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
Wire Kits		
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

IP67   Meets MIL-STD 810   IDAS ICOM DIGITAL ADVANCED SYSTEM

Icom America Inc.

F3201DEX – F4201DEX Series
IECEx/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
Antennas		
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
FASC57U	430-470MHz standard antenna for LM radios (red ring)	$13.00
Batteries		
BP277EX	Li-ion 7.4V 1900mAh (typical capacity), 1800mAh (minimum value) blue battery	$400.00
Belt Clips		
MB94EX	Blue alligator belt clip for F3201DEX/4201DEX	$17.00
Chargers		
BC212EX	Rapid charger (includes BC213SA) for F3201DEX/4201DEX	$130.00
Microphones		
HM203EX	Blue speaker microphone for F3201DEX/4201DEX	$210.00
Programming Software & Cables		
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

Meets **MIL-STD 810**

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
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
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
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	$510.00

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F3210D – F4210D Series

Entry Level IDAS™ Trunking Portables

Accessories

Model	Description	MSRP
	installed)	
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

Model	Description	MSRP
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

Model	Description	MSRP
94416646	F3210D/4210D CD service manual	$0.00
97716645	F3210D/4210D service manual hardcopy	$32.33
98816644	F3210D/4210D owner's manual	$0.00

Microphones

Model	Description	MSRP
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

Programming Software & Cables

Model	Description	MSRP
CSF3210D	F3210D/4210D, CSF3230D/4230D & F5220D/6220D 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

Wire Kits

Model	Description	MSRP
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

IP67   **MIL-STD 810** Meets   **IDAS** ICOM DIGITAL ADVANCED SYSTEM

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
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
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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
Carrying Cases		
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$45.00

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F3230D – F4230D Series

IDAS Trunking Portables

Accessories

Model	Description	MSRP
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$50.00
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$45.00
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
Chargers		
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 14	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
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
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$44.00
Manuals		
94416677	F3230D CD service manual	$0.00
94416679	Service manual CD for F4230D	$0.00
97716676	Service manual hardcopy F3230D	$0.00
97716678	Service manual hardcopy F4230D	$53.73
98816675	Owner's manual F3230D/4230D	$0.00
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
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
Programming Software & Cables		
CSF3210D	F3210D/4210D, CSF3230D/4230D & F5220D/6220D 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

F3230D – F4230D Series

IDAS Trunking Portables

Accessories

Model	Description	MSRP
Wire Kits		
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

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

MDC 1200 Compatible   **IPX7**   **Meets MIL-STD 810**   **OTTO ACCESSORIES AVAILABLE**   **IP57 SUBMERSIBLE & DUST PROTECTED**

F50V/F60V Series

Submersible Analog Portables

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 01	400-470MHz waterproof radio	$513.00
F60V 16	450-512MHz waterproof radio	$513.00
F60V 11	400-470MHz waterproof radio with voice and vibrate features	$554.00
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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

F50V/F60V Series
Submersible Analog Portables

Accessories

Model	Description	MSRP
NCM88	Nylon carrying case with a clip for the F50/60 & M88 radios	$26.00
Chargers		
AD100	Adapter cup to install in the BC119N or BC121N for the F50/60 & M88 radios	$27.00
BC119N 01	Rapid charger requiring radio specific adapter cup; 100-240V with a US style plug (not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V with 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 14	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
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 V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410469-S	Over-the-head style, noise attenuating headset, IS approved	$445.00
OTTO V410470-S	Behind-the-head, noise attenuating headset, IS approved	$520.00
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
Manuals		
94414804	F50/F60 CD service manual	$0.00
94415358	F60V CD service manual	$16.95
94415376	F50V CD service manual	$31.86
97714806	F50 service manual - hardcopy	$0.00
97714811	F60 service manual - hardcopy	$0.00
97715317	F50V service manual - hardcopy	$46.64
97715356	F60V service manual - hardcopy	$36.35
98814809	F50/60 owner's manual	$0.00
98815318	F50V/60V owner's manual	$8.56
Microphones		
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

F50V/F60V Series

Submersible Analog Portables

Accessories

Model	Description	MSRP
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 V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
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
OTTO V210273-S	H2O Evolution style IS rated with hi/lo volume switch (IP68)	$166.00
OTTO V210274-S	Evolution style IS rated with hi/lo volume switch and 2.5mm earphone jack	$164.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00

Programming Software & Cables

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

RedHawk

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 microhpone 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

Wire Kits

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   FM APPROVED   IP55 DUST & SPRAYING WATER PROTECTION   Meets MIL-STD 810   OTTO ACCESSORIES AVAILABLE   MDC 1200 Compatible   iDAS ICOM DIGITAL ADVANCED SYSTEM

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
F3161S 55	136-174MHz intrinsically safe analog radio no DTMF keypad	$639.00
F3161DS 75	136-174MHz intrinsically safe IDAS radio no DTMF keypad	$875.00
F4161S 21	400-470MHz analog only radio, no DTMF keypad	$578.00
F4161T 18	400-470MHz analog only radio, full DTMF keypad	$602.00
F4161S 56	450-512MHz analog only radio, no DTMF keypad	$578.00
F4161T 46	450-512MHz analog only radio, full DTMF keypad	$602.00
F4161DT 65	400-470MHz intrinsically safe IDAS radio full DTMF keypad	$895.00
F4161DT 70	450-512MHz intrinsically safe IDAS radio, full DTMF keypad	$895.00

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
INSTALLLM6789	Icom installation charge	$70.00
RR FIRMWARE UPGRADE	Add 3.1 RR firmware to your IDAS radio	$0.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$16.00
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
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

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F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

Accessories

Model	Description	MSRP
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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
Carrying Cases		
LCF3061S CLIP	Leather carrying case with a clip and cutout for display only F3161/4161 series	$45.00
LCF3061S LOOP	Leather carrying case with a loop and cutout for the display	$38.00
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 CLIP	Nylon case with a clip for the F3161S/4161S radios without a DTMF cutout	$27.00
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
Chargers		
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 with Euro style plug	$76.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	$25.00
BC147SA 14	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
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

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U.S. Land Mobile Retail: Product Catalog

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

Accessories

Model	Description	MSRP
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

Headsets

Model	Description	MSRP
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 V110519	Barrel PTT - connects to headsets with pigtail	$120.00
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

Manuals

Model	Description	MSRP
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

Microphones

Model	Description	MSRP
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	Intrinscially 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 V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	$31.50

Miscellaneous

Model	Description	MSRP
AD52	Earphone adapter for the F3161/F4161/F30G/M88	$25.00

Programming Software & Cables

Model	Description	MSRP
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

RedHawk

Model	Description	MSRP
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	$120.00

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F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

Accessories

Model	Description	MSRP
	customer needed.	
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 microhpone 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
Wire Kits		
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	$125.00

Icom America Inc.

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)

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
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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

Icom America Inc.

F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

Accessories

Model	Description	MSRP
Carrying Cases		
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
Chargers		
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
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
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	$84.00
Manuals		
94416576	F3261/4261 CD service manual	$0.00
97716573	F3261/4261 hardcopy service manual	$42.12
98816575	F3261/4261 owner's manual	$0.00
Microphones		
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
Miscellaneous		
AD118	14-pin ACC adapter to use with Hirose plug accessories	$80.00
Programming Software & Cables		
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

Icom America Inc.

F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

Accessories

Model	Description	MSRP
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
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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
Carrying Cases		
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

F3360D – F4360D Series

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

Accessories

Model	Description	MSRP
Chargers		
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
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
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	$84.00
Microphones		
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
Miscellaneous		
AD118	14-pin ACC adapter to use with Hirose plug accessories	$80.00
Programming Software & Cables		
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
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

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

MDC 1200 Compatible   MULTITRUNK   Meets MIL-STD 810   IDAS ICOM DIGITAL ADVANCED SYSTEM

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		
FAS67UC	380-520MHz cut antenna for F4400	$30.00
FAS67VC	136-174MHz cut antenna - F3400/F9011	$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	148-160MHz antenna for F3400	$17.00
FAS82VS	150-160MHz 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
Belt Clips		
MB133	Alligator type belt clip	$17.00
MB136	Swivel belt clip for F1000/F3400 series	$15.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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
Chargers		
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 F3400 series; 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
CP23L	12V cigarette lighter cable for use with rapid chargers	$35.00
Encryption & Internal Modules		
CSKLD2	Encryption key loader software for F3400/F5400 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 series	$185.00
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
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	$84.00
Microphones		
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
Miscellaneous		
AD118	14-pin ACC adapter to use with Hirose plug accessories	$80.00
Programming Software & Cables		
CSF3400D	Programming software for the F3400D/F5400D series	$80.00
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

Icom America Inc.

F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

Accessories

Model	Description	MSRP
Trunking		
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

F70/F80 – F70D/F80D Series

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

Configurations

Model	Description	MSRP
F70S 23	136-174MHz intrinsically safe analog radio, no DTMF keypad (P25 upgradeable)	$913.00
F70DS 01	136-174MHz P25 radio, no DTMF keypad	$1,135.00
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
INSTALLLM6789	Icom installation charge	$70.00

Antennas

Model	Description	MSRP
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
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$16.00
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

Model	Description	MSRP
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
BP254FM	Intrinsically safe li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value)	$183.00

Belt Clips

Model	Description	MSRP
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 the MB103/Y, MB94 or MB98.	$35.00

F70/F80 – F70D/F80D Series

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

Accessories

Model	Description	MSRP
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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
Carrying Cases		
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
Chargers		
AD110	Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries	$28.00
BC119N 01	Rapid charger requiring radio specific adapter cup; 100-240V with a US style plug (not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V with 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
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 01	P25 upgrade board for F70/80 handhelds	$541.00
UT124 01	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 V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410469-S	Over-the-head style, noise attenuating headset, IS approved	$445.00
OTTO V410470-S	Behind-the-head, noise attenuating headset, IS approved	$520.00
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
KVL		
KA KVL125	KVL unit powered by 9-volt battery	$3,185.00

F70/F80 – F70D/F80D Series

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

Accessories

Model	Description	MSRP
OPC-IAKVL9	Interface Cable with 9 Pin Connector between F70D/F80D & & KA KVL125	$200.00

Manuals

Model	Description	MSRP
94415196	F70/F80 CD service manual	$50.22
97714933	F70S/T & F70DS/DT service manual hardcopy	$0.00
98814911	F70DS/DT, F70S/T, F80DS/DT, F80S/T owner's manual	$12.84

Microphones

Model	Description	MSRP
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 V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210273-S	H2O Evolution style IS rated with hi/lo volume switch (IP68)	$166.00
OTTO V210274-S	Evolution style IS rated with hi/lo volume switch and 2.5mm earphone jack	$164.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00

Programming Software & Cables

Model	Description	MSRP
CSF70/F1700	Cloning Softwre 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

RedHawk

Model	Description	MSRP
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 microhpone 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

Wire Kits

Model	Description	MSRP
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 autiodial (analog only)
MDC1200 (analog only)

F9011 – F9021 Series

P25 Digital & Analog Portables

Configurations

Model	Description	MSRP
F9011B 01	136-174MHz P25 Trunking portable, 6W, 512 CH, basic model, no display or keypad	$1,636.00
F9011B 21	136-174MHz P25 Conventional portable, 6W, 512 CH, basic model, no display or keypad	$1,330.00
F9011S 05	136-174MHz P25 Trunking 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 Trunking portable, 6W, 512 CH, display, full DTMF keypad	$2,200.00
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 45	380-470MHz P25 Trunking portable, 5W, 512 CH, display, simple keypad	$2,020.00
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 25	450-512MHz P25 Trunking portable, 5W, 512 CH, display, simple keypad	$2,020.00
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	$2,200.00
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

F9011 – F9021 Series

P25 Digital & Analog Portables

Accessories

Model	Description	MSRP
NCF9011T CLIP	Nylon carrying case with a clip for the F9011T/9021T radios with a full keypad	$30.00
Chargers		
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 with 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
Encryption & Internal Modules		
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
Headsets		
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	$84.00
KVL		
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
Microphones		
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
Miscellaneous		
AD118	14-pin ACC adapter to use with Hirose plug accessories	$80.00
Programming Software & Cables		
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
RedHawk		
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

F9011 – F9021 Series

P25 Digital & Analog Portables

Accessories

Model	Description	MSRP
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
ISL 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 within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Trunking		
ISL-3	P25 trunking upgrade for the F9011/9511 series radios	$500.00

4088A

FRS UHF FM Transceiver

SPECS & FEATURES _____

Output Power: 1/2W
Channels: 14, 38 group codes

Other Features: 38 CTCSS frequencies
                   Easy to operate
                   Water resistant
                   Requires no license fees
                   High performance antenna
                   Built-in voice scrambler

WARRANTY _____

2-Year

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4088A
FRS UHF FM Transceiver

Accessories

Model	Description	MSRP
Chargers		
BC119N 01	Rapid charger requiring radio specific adapter cup; 100-240V with a US style plug (not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V with Euro style plug	$76.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	$25.00
BC153SA	Trickle charger R5/R6/R20/BC194; 100-240V with a US style plug	$30.00
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
CP18A	Cigarette lighter cable 12V	$40.00
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
Manuals		
97714833	4088A service manual hardcopy	$0.00
Microphones		
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	$45.00
Wire Kits		
HM128	Earphone-microphone with 2-pin straight connector	$30.00

Mobiles

Icom America Inc.

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

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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
Mounting Hardware		
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
Power Supplies		
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
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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

Meets MIL-STD 810

MDC 1200 Compatible

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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
Mounting Hardware		
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
Power Supplies		
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
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	$99.00
PROG-MF	Icom to program your land mobile mainframe	$0.00

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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

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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

Model	Description	MSRP
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

Model	Description	MSRP
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

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

GPS

Model	Description	MSRP
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	$110.00

Manuals

Model	Description	MSRP
94415608	F5121D CD service manual	$28.97
94415695	F6121D CD service manual	$0.00
97715607	F5121D service manual - hardcopy	$55.08
97715710	F6121D service manual - hardcopy	$54.36
98815606	F5121D/6121D owner's manual	$17.12

Microphones

Model	Description	MSRP
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

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

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F5121D - F6121D Series

IDAS™ Mobiles

Accessories

Model	Description	MSRP
Mounting Hardware		
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
Power Supplies		
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
Programming Software & Cables		
CSF3101D/F5121D	F3101D/F5121D series programming software	$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	$99.00
PROG-MF	Icom to program your land mobile mainframe	$0.00
RedHawk		
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 microhpone 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

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
Manuals		
94416649	F6220D CD service manual	$0.00
94416651	F5220D CD service manual	$0.00
97716648	F6220D hardcopy service manual	$37.73
97716650	F5220D hardcopy service manual	$35.40
98816647	F5220D/6220D hardcopy service manual	$0.00
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

F5220D - F6220D Series

IDAS Trunking Mobiles

Accessories

Model	Description	MSRP
Mounting Hardware		
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
Power Supplies		
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
Programming Software & Cables		
CSF3210D	F3210D/4210D, CSF3230D/4230D & F5220D/6220D programming software	$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	$99.00
PROG-MF	Icom to program your land mobile mainframe	$0.00
RedHawk		
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 microhpone 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

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   Meets MIL-STD 810   MDC 1200 Compatible

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.	$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
INSTALLLM1234	Icom installation charge	$40.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	$0.00
RR FIRMWARE UPGRADE	Add 3.1 RR firmware to your IDAS radio	$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		
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

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™Digital Mobiles

Accessories

Model	Description	MSRP
GPS		
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	$110.00
Manuals		
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
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
Miscellaneous		
IA-10401	Split dispatch dongle	$100.00
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
MSA 1421-00LRM	Locking trunnion for F5061/6061	$53.00
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
Programming Software & Cables		
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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
RedHawk		
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

Icom America Inc.

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™Digital Mobiles

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-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 within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
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
RMK3 01	F5061/6061 bracket & face plate for remote mounting. Separation cable not included	$110.00

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
Programming Software & Cables		
CSF3360D/F5360D	Programming software for the F3360D & F5360D series	$90.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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

Icom America Inc.

F5360D – F6360D Series

Analog and 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

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 woker 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   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
Encryption & Internal Modules		
CSKLD2	Encryption key loader software for F3400/F5400 series	$600.00
ISL-AKAES	AES activation code for F3400/F5400 series	$360.00
UT134	AES/DES encryption board for F3400/F5400 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
Power Supplies		
ICT ICO12	Power supply with cover for control station (120VAC; 12A)	$210.00
ICT ICO12-2	Power supply with cover for control station (220VAC; 12A)	$240.00
Programming Software & Cables		
CSF3400D	Programming software for the F3400D/F5400D series	$80.00
CSF3400D	Programming software for the F3400D/F5400D series	$80.00
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

Icom America Inc.

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F5400D – F6400D Series

VHF UHF Digital Mobile Transceiver

Accessories

Model	Description	MSRP
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
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
Trunking		
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
F1721 43	136-174MHz analog mobile (P25 upgradeable)	$855.00
F1721D 41	136-174MHz P25 mobile	$1,258.00
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
INSTALLLM1234	Icom installation charge	$40.00
QCRRS09	3 year comprehensive radio repair service for P25 radios	$0.00

Antennas

Model	Description	MSRP
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

Model	Description	MSRP
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	Accesory cable for external terminal connection	$65.00

Encryption & Internal Modules

Model	Description	MSRP
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

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

KVL

Model	Description	MSRP
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

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F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

Accessories

Model	Description	MSRP
Manuals		
94414901	F1721/1821/2721/2821 CD service manual	$50.22
97714917	F1721/D & F1821/D service manual hardcopy	$43.69
98814877	F1721/D, F1821/D, F2721/D, F2821/D 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
Mounting Hardware		
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
Power Supplies		
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
Programming Software & Cables		
CSF70/F1700	Cloning Softwre F70/F80/F1721/F1821/F2721/F282	$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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
PROGLM6789	Icom to program your radio or IAS product	$70.00
PROG-MF	Icom to program your land mobile mainframe	$0.00
RedHawk		
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 microhpone 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

F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

Accessories

Model	Description	MSRP
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
RMK2	F1721/1821 bracket & face plate for remote mounting. Separation cable not included	$145.00

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 Trunking 50W mobile with no keypad	$2,060.00
F9511S 21	136-174MHz P25 conventional 50W mobile with no keypad	$1,690.00
F9511T 15	136-174MHz P25 Trunking 50W mobile with keypad	$2,160.00
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	$2,160.00
F9521T 45	400-470MHz P25 Conventional 45W mobile, full keypad	$1,810.00
F9521S 31	450-512MHz 45W P25 Trunking 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
Manuals		
94415436	F9511 CD service manual	$50.22
97715423	F9511 service manual - hardcopy	$62.12
Microphones		
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
Mounting Hardware		
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 CS120-20A/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
Programming Software & Cables		
CSF9010/F9510	F9011/9511 programming software	$72.00
CSRMK4	Programming software for the RMK4	$80.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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
PROG-MF	Icom to program your land mobile mainframe	$0.00
RedHawk		
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 microhpone 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
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

F9511 - F9521 Series

P25 Trunking Mobiles

Accessories

Model	Description	MSRP
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
Trunking		
ISL-3	P25 trunking upgrade for the F9011/9511 series radios	$500.00

IP, Data & Other Solutions

Icom America Inc.

IP100H

License-free radio for wireless network (WLAN)

SPECS _____

Frequencies:	2412-2472 MHz (13 channels)
	5180-5700MHz (19 channels)
WLAN standard:	IIEEE 802.11 a/b/g/n
Operating time:	Over 20 hours (with BP-271)
RF output:	Less than 10mW/MHz
Voice codec:	G.711 μ-law (64kbps)
AF output:	Internal 400mW (16Ω)
	External 200mW (8Ω)
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

Icom America Inc.

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IP100H

License-free radio for wireless network (WLAN)

Configurations

Model	Description	MSRP
IP1000C 100	Manages up to 100 radios in a network	$4,895.00
IP1000C 20	Manages up to 20 radios in a network	$1,665.00
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	$29.17
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
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
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
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
Mounting Hardware		
MB VP3	Rack mounting shelf for VEPG3/IP1000C	$100.00

IP100H
License-free radio for wireless network (WLAN)

Accessories

Model	Description	MSRP
MB99A	Wall mounting bracket VEPG3/IP1000C	$65.00
Programming Software & Cables		
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
Remote Communication		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	$120.00
Wire Kits		
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
WLAN		
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

Icom America Inc.

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
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$1,200.00
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

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
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
Programming Software & Cables		
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 _____

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 _____

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 _____

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

Meets MIL-STD 810

IP54
DUST PROTECTION
& SPLASH PROOF

Icom America Inc.

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	$1,490.00
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
Microphones		
HM192	Remote control microphone for F8101	$640.00
HM193	Hand microphone for the F8101	$85.00
Miscellaneous		
CFUF8100	Cooling fan unit	$440.00
Mounting Hardware		
MB126	Mounting bracket for F8101	$300.00
Programming Software & Cables		
CSF8101	F8101 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
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

Icom America Inc.

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
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
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	$99.00
PROG-IAS	Icom to program your system products	$0.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00

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 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 TX-RX seperation	$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
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	$1,970.00
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
Manuals		
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
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$1,200.00
VEPG3	ROIP gateway	$1,900.00
Mounting hardware		
IASMNT1005	Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000	$36.00
Pilot Tone Generator		
JPSPTG10	Pilot tone generator for analog operation only (requires universal mounting plate for installation)	$1,165.00
Pre-Selectors		
IASPR1001	136-150MHz 4 cavity pre-selector (IASMNT1005 req. with FR5000)	$700.00
IASPR1002	150-174MHz 4 cavity pre-selector (IASMNT1005 req. with FR5000)	$700.00
IASPR1010	400-440MHz 4 cavity pre-selector (IASMNT1005 req. with FR6000)	$700.00
IASPR1011	440-520MHz 4 cavity pre-selector (IASMNT1005 req. with FR6000)	$700.00
Programming Software & Cables		
CSFR5000	FR5000/6000 programming software	$72.00
IASTUN1001	Icom to tune your system products	$0.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Remote Communication		
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
Trunking/Network Controller		
UCFR5000 01	Trunking/Network controller board (1 per repeater)	$500.00

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

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 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
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 TX-RX seperation	$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

FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

Accessories

Model	Description	MSRP
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	$1,970.00
IASDUP50FR	FR5000/6000 internal duplexer assembly kit including RF jumpers, mounting bracket and screws	$100.30

Encryption & Internal Modules

Model	Description	MSRP
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

Model	Description	MSRP
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00

IP Linking

Model	Description	MSRP
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

Manuals

Model	Description	MSRP
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

Microphones

Model	Description	MSRP
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

Miscellaneous

Model	Description	MSRP
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$1,200.00
VEPG3	ROIP gateway	$1,900.00

Mounting hardware

Model	Description	MSRP
IASMNT1005	Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000	$36.00

Pilot Tone Generator

Model	Description	MSRP
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
Power Supplies		
ICT 22012-20A	Second power supply module for ICT 22012-20AR	$340.00
ICT 22012-20AR	External rack mountable power supply	$475.00
ICT 22012-20BCR	Single module power supply - rack mountable	$712.00
ICT 22012-30N	Additional module (mounts inside the ICT 22012-70N)	$388.00
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)	$1,199.00
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)	$1,587.00
ICT RMB LARGE	Bracket for second power supply (use with ICT 22012-20A)	$26.00
Pre-Selectors		
IASPR1001	136-150MHz 4 cavity pre-selector (IASMNT1005 req. with FR5000)	$700.00
IASPR1002	150-174MHz 4 cavity pre-selector (IASMNT1005 req. with FR5000)	$700.00
IASPR1010	400-440MHz 4 cavity pre-selector (IASMNT1005 req. with FR6000)	$700.00
IASPR1011	440-520MHz 4 cavity pre-selector (IASMNT1005 req. with FR6000)	$700.00
Programming Software & Cables		
CSFR5000	FR5000/6000 programming software	$72.00
IASTUN1001	Icom to tune your system products	$0.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Remote Communication		
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
Repeaters		
URFR6000 63	400-470MHz repeater module	$1,205.00
URFR6000 67	450-512MHz repeater module	$1,205.00
Trunking/Network Controller		
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
- ±0.5ppm 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

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 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 TX-RX seperation	$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	$1,970.00
External Speakers		
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
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
Power Supplies		
ICT 22012-20A	Second power supply module for ICT 22012-20AR	$340.00
ICT 22012-20AR	External rack mountable power supply	$475.00
ICT 22012-20BCR	Single module power supply - rack mountable	$712.00
ICT 22012-30N	Additional module (mounts inside the ICT 22012-70N)	$388.00
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)	$1,199.00
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)	$1,587.00
ICT RMB LARGE	Bracket for second power supply (use with ICT 22012-20A)	$26.00
Programming Software & Cables		
CSFR5000	FR5000/6000 programming software	$72.00

Icom America Inc.

FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

Accessories

Model	Description	MSRP
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
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
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Trunking/Network Controller		
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 to140 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

Third party components noted are subject to change or substitution.

SIGNALING_____

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

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

IDAS
ICOM DIGITAL ADVANCED SYSTEM

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 seperately.	$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 seperately.	$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 seperately.	$6,665.00

Accessories

Model	Description	MSRP
INSTALL-IAS	Install a component into a repeater or 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 TX-RX seperation	$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	$1,970.00
Encryption & Internal Modules		
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
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
Manuals		
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
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

Icom America Inc.

IAS 120D – 150D Series

High-Power Digital & Analog Repeater

Accessories

Model	Description	MSRP
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$1,200.00
VEPG3	ROIP gateway	$1,900.00
Mounting hardware		
IASMNT1005	Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000	$36.00
Pilot Tone Generator		
JPSPTG10	Pilot tone generator for analog operation only (requires universal mounting plate for installation)	$1,165.00
Pre-Selectors		
IASPR1001	136-150MHz 4 cavity pre-selector (IASMNT1005 req. with FR5000)	$700.00
IASPR1002	150-174MHz 4 cavity pre-selector (IASMNT1005 req. with FR5000)	$700.00
IASPR1010	400-440MHz 4 cavity pre-selector (IASMNT1005 req. with FR6000)	$700.00
IASPR1011	440-520MHz 4 cavity pre-selector (IASMNT1005 req. with FR6000)	$700.00
Programming Software & Cables		
CSFR5000	FR5000/6000 programming software	$72.00
IASTUN1001	Icom to tune your system products	$0.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	$99.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	$99.00
PROG-IAS	Icom to program your system products	$0.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Remote Communication		
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
Trunking/Network Controller		
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

Icom America Inc.

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
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 TX-RX seperation	$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	400-512MHz 4 cavity duplexer, 3 min split for the IAS 100W analog repeater	$1,895.00
Manuals		
94416670	Service manual CD for FR9010	$0.00
94416673	Service manual CD for FR9020	$0.00
97716669	Service manual hard copy FR9010	$56.67
97716672	Service manual hard copy for FR9020	$54.64
98816671	Owner's manual FR9010/9020	$0.00
Microphones		
HM-9000	Speaker microphone for the FR9010/9020 repeaters	$80.00
Power Supplies		
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)	$1,199.00
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)	$1,587.00
Programming Software & Cables		
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
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

3039.05.17

FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

Accessories

Model	Description	MSRP
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00

Icom America Inc.

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
INSTALLLM1234	Icom installation charge	$40.00
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 TX-RX seperation	$2,030.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	$4,400.00
IASDUP1035	400-512MHz 4 cavity duplexer, 3 min split for the IAS 100W analog repeater	$1,895.00
IASDUP1044	440-512 6 cavity 100W duplexer with 3MHz TX-RX separation	$1,970.00
Fan Module		
RFFM1	Fan module for RFT repeaters (recommended for 100W units)	$300.00
Manuals		
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
Miscellaneous		
RFT P25-C	P25 firmware upgrade for RFT analog P25 upgradeable repeaters	$3,428.00
Programming Software & Cables		
IASTUN1001	Icom to tune your system products	$0.00
PROG-IAS	Icom to program your system products	$0.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RFT IP E2-P25	Programming software for RFT 100W P25/analog repeaters	$445.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00

RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

Accessories

Model	Description	MSRP
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00

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
Antennas		
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		
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		
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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
Carrying Cases		
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$45.00
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$50.00
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$45.00
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
Chargers		
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 with Euro style plug	$76.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	$25.00
BC147SA 14	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
Encryption & Internal Modules		
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
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
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
Programming Software & Cables		
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
Wire Kits		
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

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
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$16.00
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
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
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
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
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

Icom America Inc.

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
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

Model	Description	MSRP
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 V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00

Manuals

Model	Description	MSRP
94415593	F3101D CD service manual	$16.95
94415609	F4101D CD service manual	$0.00
97715592	F3101D service manual - hardcopy	$32.64
97715608	F4101D service manual hardcopy	$81.44
98815591	F3101D/4101D owner's manual	$17.12

Microphones

Model	Description	MSRP
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 V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00

Programming Software & Cables

Model	Description	MSRP
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

RedHawk

Model	Description	MSRP
IAS REDHAWK	Speaker microhpone 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

Wire Kits

Model	Description	MSRP
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

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
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

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
Antennas		
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
Batteries		
BP208N	Battery case that holds 6 AA alkaline batteries.	$22.00
BP210N	NiMH 7.2V 1650mAh battery	$75.00
Belt Clips		
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
MB87	Swivel belt clip F11/F21/F3G/F4G/F30G/F40G/M2A/M3A/V8	$10.00
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
Cables		
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
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
Chargers		
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 14	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
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

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 V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
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		
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
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
OTTO V110432	Speaker mic earpiece (2.5mm 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
Programming Software & Cables		
CSF11	F11/F21 Program Sftwre	$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
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
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00

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
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
INSTALLLM1234	Icom installation charge	$40.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$16.00
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
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 the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$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
Carrying Cases		
LCF14 SWIVEL	Leather carrying case with a swivel F14/24 & F3011/4011 radios	$50.00
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$45.00
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$50.00
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$45.00
LCF33 SWIVEL	Leather carrying case with a swivel loop and cutout for the display	$50.00

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
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
Chargers		
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 01	Rapid charger requiring radio specific adapter cup; 100-240V with a US style plug (not CEC compatible for Amateur/Marine radios)	$75.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	$25.00
BC147SA 14	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-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 V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410395	Behind-the-head style, noise attenuating headset (2-pin right angle connector)	$360.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
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	$145.00

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
	connector)	
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$44.00

Manuals		
94414815	F43TR CD service manual	$0.00
94414894	F33G/F43G CD service manual	$0.00
94414913	F14/F24 CD service manual	$16.95
94415195	F3021/F4021 CD service manual	$28.97
97714816	F43TR service manual hardcopy	$0.00
97714843	F43GS/GT service manual hardcopy	$0.00
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	$0.00
98814946	F14/F24 owner's manual	$31.86
98815180	F3021/4021 owner's manual	$6.42
98815192	F43TR 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
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 V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210200	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle connector	$93.00
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

Programming Software & Cables		
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
CSF43TR	F43TR Program 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

Icom America Inc.

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
RedHawk		
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 microhpone 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
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
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

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
Antennas		
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
Belt Clips		
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	$12.00
MB87	Swivel belt clip F11/F21/F3G/F4G/F30G/F40G/M2A/M3A/V8	$10.00
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
Chargers		
BC119N 01	Rapid charger requiring radio specific adapter cup; 100-240V with a US style plug (not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V with 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
Encryption & Internal Modules		
UT110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
Manuals		
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
Microphones		
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	$45.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	$31.50
Programming Software & Cables		
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
Wire Kits		
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	$170.00

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
	straight connector - F3/S/F4/S	

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
Antennas		
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
Batteries		
BP210N	NiMH 7.2V 1650mAh battery	$75.00
BP210N FM	Intrinsically safe NiMH 7.2V 1650mAh battery for F30G/F40G IS radios	$131.00
Belt Clips		
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
MB87	Swivel belt clip F11/F21/F3G/F4G/F30G/F40G/M2A/M3A/V8	$10.00
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
Cables		
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
NCF30G LOOP	Nylon carrying case with a loop for the F30G/40G & M36 radios	$25.00
Chargers		
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
Encryption & Internal Modules		
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
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

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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
OTTO V410399	Skull Mic System w/earcup and 80mm body PTT for F30G/40G and M88	$650.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	$68.00
Manuals		
94413511	F40GS/GT CD service manual	$0.00
94414803	F30G/F40G CD service manual	$0.00
97713510	F30GS/GT service manual hardcopy	$32.55
97713513	F40GS/GT service manual hardcopy	$31.86
98813509	F30G/F40G owner's manual	$0.00
Microphones		
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
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	$31.50
Miscellaneous		
AD52	Earphone adapter for the F3161/F4161/F30G/M88	$25.00
Programming Software & Cables		
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
Wire Kits		
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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