



Network and RoIP Products

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American Communication Systems

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Icom America Inc.

Product



IP501H

LTE Portable

SPECS

Network:	4G bands	LTE B2, B4, B5, B17
	3G bands	W-CDMA B2, B5
AF output:		Internal 400mW (16Ω) External 200mW (8Ω)
Voice Codec:		G.726 (32kbps)
Mil Spec:		810C, D, E, F
Waterproof:		IP67/55/54
Dimensions (W x H x D):		2.3 x 3.7 x 1.3 in.
Weight:		8.5 oz
Warranty:		2 Year

IP501H requires airtime service on the Connect system



FEATURES

Full duplex communication. Users can talk and receive at the same time.
Multiple users can initiate calls. No requirements to check or wait for channel availability.
Group calls with three or more people
Built-in Bluetooth
Voice message recording
Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
Emergency button, Lone Worker and Man Down functions
Vibration alert function notifies of incoming call
Text message reception and preprogrammed message transmission
Up to 500 memory address book (including Group, Individual, Talkgroup and Telephone lists)
OTAP – performed by Icom America. Dealer OTAP also available, speak with your channel representative for more information.

COMES WITH

Antenna
SIM card
Li-Ion battery (BP-272)
Belt clip (MB-135)
Wrist strap
Owner's manual

IP67



IP501H

LTE Portable

Configurations

Model	Description
IP501H	Portable LTE radio with SIM card installed. Monthly airtime fee will apply with activated SIM.

Accessories

Model	Description
Antennas	
3310005140	LTE Antenna
Batteries	
BP272	Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value)
Belt Clips	
MB135	Alligator type belt clip
Cables	
OPC2144	Right angle plug adapter cable to plug old straight pin connector headsets into (recommended to use with OPC478UC, not needed with OPC478UD when programming radios)
OPC2500	2 m, 6.56 ft extension cable for HM-249
OPC254L	Power supply cable; 10-14V DC required for high power output
Chargers	
BC123SA	Straight-angle AC adapter for rapid chargers; 100-240V with US style plug
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug
BC157S	AC adapter for gang chargers; 100-240V with US style plug
BC157SE	AC adapter for gang chargers; 100-240V with Euro style plug
BC202IP3AC	Kit includes BC-202IP3L rapid charger with BC-123SA AC adapter
BC202IP3L	Rapid charger. Requires either BC123S, BC-228, or CP-25H.
BC218	Charging cradle with Bluetooth® (requires CP22 or CP23L)
BC218 CCK	Car charger kit includes 1 each: BC218, CP23L, MBA7, MBF1, HM215 & SP35
BC228	AC adapter for connectable chargers (BC226, BC202IP3, & BC257). Use one BC228 for up to 4 BC257's, 6 BC202IP3 or BC226 chargers.
CP23L	12V cigarette lighter cable for use with rapid chargers
External Speakers	
SP35	5W external speaker with 3.5mm speaker jack and 2m cable
Headsets	
HS94	Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392
HS95	Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392
HS97	Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392
IJKP-HM1LSOW	1-wire kit w/acoustic tube
IJKP-HM2LSOW	1-wire kit ear hanger & earbud
IJKP-HM3LSOW	1-wire kit D-shape ear hanger
OPC2006LS	Adapter plug with VOX and no PTT to to use with the HS94/95/97
OPC2328	Adapter plug with PTT to to use with the HS94/95/97
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack

IP501H

LTE Portable

Accessories

Model	Description
Microphones	
HM183LS	Waterproof compact speaker microphone (2-pin connector)
HM186LS	Compact speaker microphone with earphone jack (2-pin connector)
HM215	Speaker microphone for the BC-218 car charger
IAHM600	Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included)
Miscellaneous	
EXTWARR811	1 year extended warranty
EXTWARR812	2 year extended warranty
EXTWARR813	3 year extended warranty
SIM CARD	CONNECT US SIM card for cellular products
SIM TF CARD	CONNECT Global SIM card for cellular products
VESP1	LTE speakerphone unit
Mounting Hardware	
MBA7	Bracket adapter for the BC-218
Remote Mounting	
MBF1	Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8.
Software & Cables	
OPC478UD	USB programming cable (2-pin connectors handhelds)
Wire Kits	
HM153LS	Microphone with 2.5mm earphone combination (right angle 2-pin connector)
HM166LS	Earphone microphone with two pin right angle connector

IP504H

Cellular Portable

SPECS

Network:	4G bands	FD-LTE, B2, B4, B5, B12, B13, B14, B25, B26, B66, B71
AF output		Internal 900mW (8Ω) External 200mW (8Ω)
Voice Codec:		G.726 (32kbps)
Mil Spec:		810G, C, D, E, F
Waterproof:		IP67/55/54
Dimensions (W x H x D):		2.3 x 3.7 x 1.3 in.
Weight:		8.8 oz
Warranty:		2 Year

IP504H requires airtime service on the CONNECT system
IP504H uses the CONNECT Global SIM. It cannot talk
with CONNECT US devices.

FEATURES

Talk and roam across North and Latin America
Simultaneous TalkListen™ for full duplex communication
Multiple users can initiate calls. No requirements to check or wait for
channel availability.
Group calls with three or more people
Built-in Bluetooth®
Voice message recording
Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
Emergency button, Lone Worker and Man Down functions
Vibration alert function notifies of incoming call
Text message reception and preprogrammed message transmission
Up to 500 memory address book (including Group, Individual, Talkgroup
and Telephone lists)
OTAP – performed by Icom America. Dealer OTAP also available, speak
with your channel representative for more information.



COMES WITH

Antenna
SIM card
Li-Ion battery (BP-272)
Belt clip (MB-135)
Owner's manual

IP67



IP504H

Cellular Portable

Configurations

Model	Description
IP504H 32 USA	LTE portable with a Global SIM card. Supports only the Connect "Global" SIM and cannot communicate with radios using the Connect "US" (AT&T) SIM.

Accessories

Model	Description
Batteries	
BP272	Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value)
BP307	Li-ion battery pack 7.2 V, 3 150 mAh (typ.)
Belt Clips	
MB135	Alligator type belt clip
Chargers	
BC123SA	Straight-angle AC adapter for rapid chargers; 100-240V with US style plug
BC157S	AC adapter for gang chargers; 100-240V with US style plug
BC202IP3AC	Kit includes BC-202IP3L rapid charger with BC-123SA AC adapter
BC202IP3L	Rapid charger. Requires either BC123S, BC-228, or CP-25H.
BC218	Charging cradle with Bluetooth® (requires CP22 or CP23L)
BC228	AC adapter for connectable chargers (BC226, BC202IP3, & BC257). Use one BC228 for up to 4 BC257's, 6 BC202IP3 or BC226 chargers.
CP23L	12V cigarette lighter cable for use with rapid chargers
CP25H	Cigarette lighter cable to use with the BC-202IP3L rapid charger
Controller	
BC207S	12V / 3.5A AC adapter for VEPG3/IP1000C/IP1100CV
Headsets	
HS94	Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392
HS95	Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392
OPC2006LS	Adapter plug with VOX and no PTT to to use with the HS94/95/97
OPC2328	Adapter plug with PTT to to use with the HS94/95/97
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
Microphones	
HM183LS	Waterproof compact speaker microphone (2-pin connector)
HM186LS	Compact speaker microphone with earphone jack (2-pin connector)
HM215	Speaker microphone for the BC-218 car charger
Miscellaneous	
EXTWARR811	1 year extended warranty
EXTWARR812	2 year extended warranty
EXTWARR813	3 year extended warranty
SIM TF CARD	CONNECT Global SIM card for cellular products
Mounting Hardware	
MBA7	Bracket adapter for the BC-218

IP504H

Cellular Portable

Accessories

Model	Description
<i>Remote Mounting</i>	
MBF1	Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8.
<i>Wire Kits</i>	
HM153LS	Microphone with 2.5mm earphone combination (right angle 2-pin connector)
HM166LS	Earphone microphone with two pin right angle connector

IP730D – IP740D Series

Hybrid LTE/IDAS™/Analog Portable

SPECS

Frequencies:	136–174, 400-512MHz
Network:	4G bands LTE, B2, B4, B12
	3G bands W-CDMA B2, B5
Output Power:	5W
Channels:	128
Channel Spacing:	12.5kHz
Mil Spec:	MIL-STD 810 C, D, E, F & G
Waterproof Rating:	IP67
Weight:	11.3 oz (with BP-303)

IP730D series requires airtime service on the CONNECT system.



FEATURES

General Features

- Dual PTT buttons for LTE and IDAS/analog operation
- Dual receive function
- Bridge mode connects talkpaths over LTE transmissions
- Digital conventional built-in
- Man Down, Lone Worker, Motion/Stationary detection
- Emergency button
- 1500mW loud audio
- AquaQuake™
- Bluetooth®
- Vibration alert
- Record and playback up to 4 min with a max of 10 messages

LTE Features

- Full duplex communications
- Messaging functions
- 500 memory ID address book
- GPS transmission

IDAS Features

- OTAP IDAS units via LTE signals
- IDAS conventional
- Single, individual, group calls
- 15-bit encryption voice scrambler

COMES WITH

Battery pack (BP-303)
Belt clip (MB-133)
SIM card

IP730D – IP740D Series

Hybrid LTE/IDAS™/Analog Portable

Configurations

Model	Description
IP730D	136-174 LTE, IDAS, and analog portable radio.
IP740D	400-512 LTE, IDAS, and analog UHF portable radio.

Accessories

Model	Description
HM238MC	Tie-clip microphone w/2.5mm earpiece jack and dual PTT buttons

Antennas

FASC25U	400-430MHz antenna J type connector
FASC25V	136-150MHz antenna J type connector
FASC26US	400-450MHz stubby antenna J type connector
FASC27VS	142-150MHz stubby antenna J type connector
FASC28V	142-162MHz antenna J type connector
FASC29V	160-174MHz antenna J type connector
FASC55V	146-174MHz standard antenna J type connector
FASC56VS	150-160MHz stubby antenna J type connector
FASC57U	430-470MHz standard antenna (red ring) J type connector
FASC57VS	160-174MHz stubby antenna J type connector
FASC61UC	380-520MHz cut antenna J type connector
FASC61VC	136-174MHz cut antenna for the specific frequency desired
FASC62V	150-160MHz high gain antenna J type connector
FASC63V	155-165MHz high gain antenna J type connector
FASC72U	470-512MHz antenna J type connector
FASC73US	450-470MHz stubby antenna for J type connector
IAFASC450US	430-470MHz stubby antenna with a J type connector

Batteries

BP303	3200mAh li-ion battery pack
BP305	Battery case AA x5

Belt Clips

MB133	Alligator type belt clip
MB136	Swivel belt clip for F1000/F3400/F7010/F52D/M85 series
MB96N	Swivel belt hanger to use with belt clip

Chargers

AD132N	Adapter cup for the BC214-1/E for use with the BP284/BP290/BP303
BC123SA	Straight-angle AC adapter for rapid chargers; 100-240V with US style plug
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug
BC226	Connectable rapid charger (connect up to 6). Requires AC adapter: BC123S for single use or BC228 for 2+
BC227	Rapid charger that goes into trickle mode at a 80% charge (US Plug)
BC228	AC adapter for connectable chargers (BC226, BC202IP3, & BC257). Use one BC228 for up to 4 BC257's, 6 BC202IP3 or BC226 chargers.
CP23L	12V cigarette lighter cable for use with rapid chargers

IP730D – IP740D Series

Hybrid LTE/IDAS™/Analog Portable

Accessories

Model	Description	
Headsets		
AD135	3.5mm earphone jack adapter that plugs into a 14-pin connector	
HS94	Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392	
HS95	Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392	
HS97	Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392	
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack	
Microphones		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	
HM222H	IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector)	
HM236	Compact waterproof speaker microphone	
HM245T	DTMF microphone	
SP27	Acoustic tube earphone with a clip (3.5mm)	
SP29	Earhook type earphone with 3.5mm plug	
SP40	Earphone with 3.5mm plug	
Miscellaneous		
EXTWARR811	1 year extended warranty	
EXTWARR812	2 year extended warranty	
EXTWARR813	3 year extended warranty	
SIM CARD	CONNECT US SIM card for cellular products	
SIM TF CARD	CONNECT Global SIM card for cellular products	
Software & Cables		
OPC2338	14-pin programming cable plus transparent data transfer	
PROG-MF	Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels	
Wire Kits		
EH15B	Earphone with 2.5mm plug to use with HM-163MC	
HM163MC	Lapel mic with 2.5mm earphone jack	
SP26	Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS	
SP28	Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS	

IPM60

Hybrid LTE/Marine VHF Portable

SPECS

Frequencies:	Tx: 156.025 – 157.425MHz Rx: 156.050 – 163.275MHz
Network:	4G bands: LTE, B2, B4, B12 3G bands: W-CDMA B2, B5
Output Power:	5W
Usable Channel Groups:	INT, USA, CAM, WX
Mil Spec:	MIL-STD 810 C, D, E, F & G
Waterproof Rating:	IP67
Weight:	11.3 oz (with BP-303)

IPM60 series requires airtime service on the CONNECT system.



FEATURES

General Features

- Dual PTT buttons for LTE and marine VHF operation
- Dual receive function
- Adaptive PTT automatically changes the modes based on GPS location
- 1500mW loud audio
- AquaQuake™
- Bluetooth®
- Noise canceling function

LTE Features

- Simultaneous TalkListen™
- Status function messages
- Memory ID address book
- Dual SIM card slot
- Emergency button, Man Down, Lone Worker, Motion/Stationary
- Record and playback up to 4 min with a max of 10 recordings
- Automatic firmware update and provisioning

Marine Features

- Dedicated channel 16 button
- Dualwatch and tri-watch functions
- Favorite channel scan, priority channel scan, auto scan start
- Weather channel receive with weather alert

COMES WITH

Antenna (FA-S59V)
Battery pack (BP-303)
Belt clip (MB-133)
SIM card

IPM60

Hybrid LTE/Marine VHF Portable

Configurations

Model	Description
IPM60 12 USA	Marine VHF and LTE portable

Accessories

Model	Description
HM238MC	Tie-clip microphone w/2.5mm earpiece jack and dual PTT buttons
Antennas	
FASC59V	Standard antenna M25/M37/M93D/M92D
Batteries	
BP303	3200mAh li-ion battery pack
BP305	Battery case AA x5
Belt Clips	
MB133	Alligator type belt clip
MB136	Swivel belt clip for F1000/F3400/F7010/F52D/M85 series
MB96N	Swivel belt hanger to use with belt clip
Chargers	
AD132N	Adapter cup for the BC214-1/E for use with the BP284/BP290/BP303
BC123SA	Straight-angle AC adapter for rapid chargers; 100-240V with US style plug
BC157S	AC adapter for gang chargers; 100-240V with US style plug
BC214-1	Six unit charger for radios with the BP284/BP290/BP303 battery (AD132N cup); includes AC adapter with US plug
BC226	Connectable rapid charger (connect up to 6). Requires AC adapter: BC123S for single use or BC228 for 2+
BC227	Rapid charger that goes into trickle mode at a 80% charge (US Plug)
BC228	AC adapter for connectable chargers (BC226, BC202IP3, & BC257). Use one BC228 for up to 4 BC257's, 6 BC202IP3 or BC226 chargers.
CP23L	12V cigarette lighter cable for use with rapid chargers
Headsets	
HS94	Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392
HS95	Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392
HS97	Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
Microphones	
HM184H	14-pin loud waterproof speaker mic (no accessory jack)
HM222H	IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector)
HM245T	DTMF microphone
SP27	Acoustic tube earphone with a clip (3.5mm)
SP29	Earhook type earphone with 3.5mm plug
SP40	Earphone with 3.5mm plug
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)
Miscellaneous	
SIM TF CARD	CONNECT Global SIM card for cellular products

IPM60

Hybrid LTE/Marine VHF Portable

Accessories

Model	Description	
Software & Cables		
OPC2338	14-pin programming cable plus transparent data transfer	
PROG-MF	Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels	
Wire Kits		
EH15B	Earphone with 2.5mm plug to use with HM-163MC	
SP26	Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS	
SP28	Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS	

IP501M

LTE Mobile

SPECS

Network:	4G bands	LTE B2, B4, B12
	3G bands	W-CDMA B2, B5
Audio output power:	More than 4W (External SP, at 10% distortion into a 4Ω load)	
Voice Codec:	G.726	
Mil Spec:	810C, D, E, F, G	
Dimensions (W x H x D):	4.9 x 1.1 x 6.1 in (Approximate)	
Weight:	1.9 lb (Main unit, approximate)	
Warranty:	2 Year	



IP501M requires airtime service on the Connect system

FEATURES

Full-Duplex communication provides multiple users simultaneous conversations
Built-in Bluetooth and GPS
Noise Canceling function (TX only) for clear audio in noisy environments
Priority Interrupt Calling can break into an on-going call for an important message
Text Message function of up to 32 characters
Emergency Call & Lone Worker functions

COMES WITH

Microphone (HM-241)
LTE antenna x 2
GPS antenna
SIM Card
DC power cable
Mounting bracket kit
Microphone hanger
Owner's manual



IP501M

LTE Mobile

Configurations

Model	Description
IP501M	Mobile cellular radio with SIM card installed. Monthly airtime fee will apply with activated SIM.

Accessories

Model	Description
Cables	
OPC2407	D-SUB 25-pin connector for the IP501M
External Speakers	
SP30	20W large external speaker
SP35	5W external speaker with 3.5mm speaker jack and 2m cable
Headsets	
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
Microphones	
HM230HB	CommandMic with 10-key (IP55) for IP501M
HM241	Mobile microphone with emergency button for IP501M (IP54)
IAHM600	Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included)
Miscellaneous	
EXTWARR811	1 year extended warranty
EXTWARR812	2 year extended warranty
EXTWARR813	3 year extended warranty
SIM CARD	CONNECT US SIM card for cellular products
SIM TF CARD	CONNECT Global SIM card for cellular products
Power Supplies	
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station
IAPS13	Power supply and cover for the IP501M and SAT100M.
Software & Cables	
OPC2344	PC to mobile radio programming cloning cable with USB connector.

IP110H

WLAN Portable Radio

SPECS

Frequencies:	2.4-24835 GHz 5.15-5.35 GHz 5.47-5.85 GHz
WLAN standard:	IEEE 802.11 a/b/g/n/ac
Encryption Support:	WPA2-Enterprise, WPA-Enterprise, WPA-PSK, WPA2-PSK
Operating time:	Over 20 hours
AF output:	100mW
Dimensions:	2.2 x 3.8 x 1.0 in.
Weight:	5.2 oz
Waterproof:	IP67



FEATURES

- License-free system
- Full-duplex (Simultaneous TalkListen) conversations
- Beep and vibration functions
- Motion/stationary detection, man down, lone worker functions
- Over-the-Air Programming (OTAP)
- Audio recording

COMES WITH

- Belt clip (MBB-1)
- USB charger cable (OPC-2480)
- USB AC adapter (OPC-258A)

IP110H

WLAN Portable Radio

Configurations

Model	Description
IP110H 43 USA	License-free IP radio for wireless networks. USB-Type C™ charging cable included. Desktop charger sold separately.

Accessories

Model	Description
EXTWARR611	1 year extended warranty
EXTWARR612	2 year extended warranty
EXTWARR613	3 year extended warranty
Belt Clips	
MBB1	Belt clip for the IP110H
Cables	
OPC2132	2-pin conversion cable with a headset (3.5mm) and microphone (2.5mm) adapter
Carrying Cases	
IASC110B	IP110H silicone case in black
IASC110Y	IP110H silicone case in yellow
Chargers	
BC228	AC adapter for connectable chargers (BC226, BC202IP3, & BC257). Use one BC228 for up to 4 BC257's, 6 BC202IP3 or BC226 chargers.
BC257	Rapid charger for the IP110H. Connect up to 4 units, BC228 required.
BC258A	USB AC adapter
Controller	
BC207S	12V / 3.5A AC adapter for VEPG3/IP1000C/IP1100CV
Headsets	
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
Microphones	
HM179PI	Earphone speaker microphone
HM186PI	Speaker microphone
HM228	Compact IPX7 speaker mic for M93D/M94D/IP110H
Software & Cables	
ISL-AK20AES 16 EXP	IDAS AES Encryption Key for the RC-FS20
ISL-AK20DES 17 EXP	IDAS DES Encryption Key for the RC-FS20
ISL-AK20IDS 13 EXP	IDAS/RoIPActivation Key for the RC-FS20
ISL-AK20TRY 12 EXP	30-day trial license for the RC-FS20

IP110H

WLAN Portable Radio

Accessories

Model	Description	
ISL-AK20WLN 14 EXP	Wi-Fi Radio Activation Key for the RC-FS20.	
WLAN		
AP95M	Wireless LAN access point	
IP100FS	IP based PC-dispatcher	
IP1100CV 51 EXP	WLAN controller that manages up to 300 radios. The AC adapter (BC207S) is sold seperately.	

SAT100

Satellite PTT Radio

SPECS

Operating temperature range:

-30°C to +60°C; -22°F to +140°F

Audio output power:

Internal speaker: 1500mW typical (At 5% distortion into an 8Ω load)

External speaker: 1000mW typical (At 5% distortion into an 8Ω load)

Battery life (Approximate): 14.5 hours (TX: RX: standby = 5 : 5 : 90)

Talkgroup: 15 groups (Maximum)

Antenna connector: SMA

Weight: 12.7 oz, 360g

Mil Specs: 810C, D, E, F, G

Waterproof rating: IP67



FEATURES

Two-way radio system using the Iridium® satellite network

One-to-Many Communications

Real-Time Low-Latency Communication

Operates 100% of the globe

Built-in emergency key

Secure communications with AES encryption

Short Data Message function

Voice recording function

Talkgroup Scan

Priority Interrupt Calling

Vibration Alert

Built-in Bluetooth® and GPS Receiver

Compatible with other Iridium® PTT devices

COMES WITH

Battery pack (BP-300)

Belt Clip (MBB-5)

Antenna (FA-S102U)

Desktop charger (BC-241)

AC adapter (BC-242)

SAT100

Satellite PTT Radio

Configurations

Model	Description
SAT100 13 EXP	Satellite PTT handheld with Bluetooth®

Accessories

Model	Description
EXTWARR912	1 year extended warranty
EXTWARR913	2 year extended warranty
EXTWARR914	3 year extended warranty

Antennas

AH38	Iridium passive antenna for AH38
AH40	Antenna (4.9ft) for in-vehicle and in-building use
AH41	Iridium active antenna system for the SAT100
FAS102U	Antenna for SAT100
FAS103U	Quick disconnect antenna system

Batteries

BP300	7.2V 2350mAh li-ion battery for the SAT100
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Belt Clips

MBB5	Belt clip for SAT100
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Cables

OPC2113	32.8 ft coaxial cable for the AH38
OPC2412	Connection cable between VEPG4 & SAT100
OPC2422	5M extension cable between the SAT100 and AH40.
OPC2462	193ft 5D-HFA coax cable

Carrying Cases

G1004	SAT100 shoulder holster
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Chargers

BC214NSAT	Six unit charger for SAT100
BC241	Rapid charger with multi-plug AC adapter for SAT100
BC247	Charger cradle for SAT100 for in-vehicle and in-building use

Headsets

AD135	3.5mm earphone jack adapter that plugs into a 14-pin connector
HS94	Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392
HS95	Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392
HS97	Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack

Microphones

HM222H	IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector)
SP27	Acoustic tube earphone with a clip (3.5mm)
SP29	Earhook type earphone with 3.5mm plug
SP40	Earphone with 3.5mm plug
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)

SAT100

Satellite PTT Radio

Accessories

Model	Description	
Miscellaneous		
AD118	14-pin ACC adapter to use with Hirose plug accessories	
Wire Kits		
EH15B	Earphone with 2.5mm plug to use with HM-163MC	
HM163MC	Lapel mic with 2.5mm earphone jack	
SP26	Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS	
SP28	Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS	

SAT100M

Satellite PTT Mobile Radio

SPECS

Operating temperature range:

-30°C to +60°C; -22°F to +140°F

Audio output power:

Internal speaker: 1500mW typical (8Ω load)

External speaker: 4W typical (4Ω load)

Voltage: 13.2V / 26.4DC

Talkgroup: 15 groups (Maximum)

Antenna connector: SMA

Weight: 12.7 oz, 360g

Mil Specs: 810C, D, E, F, G

Waterproof rating: IP67 (antenna w/RF unit)
IP55 (mic), IP54 (main unit)



FEATURES

- Two-way radio system using the Iridium® satellite network
- One-to-Many Communications
- Real-Time Low-Latency Communication
- Operates 100% of the globe
- Power supply capability over Ethernet from main unit to antenna (w/RF unit)
- Secure communications with AES encryption
- Short Data Message function
- Multi-functional speaker microphone with display
- Multi-language display (English, Chinese, French, Japanese, Spanish)
- Emergency mode
- Surveillance mode
- Built-in Bluetooth® and GPS Receiver
- Compatible with other Iridium® PTT devices

COMES WITH

- Speaker microphone
- DC power cable (OPC-585)
- LAN cable (OPC-2102)
- Mobile bracket

SAT100M

Satellite PTT Mobile Radio

Configurations

Model	Description
SAT100M 12 EXP	Mobile satellite PTT radio with a multi-functional speaker microphone and antenna unit

Accessories

Model	Description
8900019882	LAN cable (20 m, 65.6 ft) for the IC-SAT100M
EXTWARR912	1 year extended warranty
EXTWARR913	2 year extended warranty
EXTWARR914	3 year extended warranty

Antennas

AH38	Iridium passive antenna for AH38
AH40	Antenna (4.9ft) for in-vehicle and in-building use

Cables

OPC2422	5M extension cable between the SAT100 and AH40.
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External Speakers

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

Headsets

VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
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Power Supplies

CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station
IAPS13	Power supply and cover for the IP501M and SAT100M.

Software & Cables

OPC2357-1	Programming cable
OPC2429	SAT100M mic extension cable

VE-PG4

RoIP Gateway

SPECS

Power Supply:	12V DC +/- 10%, max 4A 100-240V AC (with the supplied AC adaptor)
Weight:	4lb (Main unit, approximate)
Interface	
LAN/WAN:	RJ-45 type x 1 (Auto MDI/MDI-X)
LAN:	RJ-45 type x 1 (Auto MDI/MDI-X)
USB Host Interface:	USB 3.0 Standard A receptacles x3
USB Console Interface:	USB 2.0 mini B receptacles x 1
Network - 4G bands:	LET B2, B4, B12 (FCC)
Network - 3G bands:	W-CDMA B2, B5 (FCC)
External - Port Connectors:	2.54 mm (0.1 in) pitch quick connector (4 terminals x3) x4
External – Audio input:	-10 dBs/-40 dBs selectable Input impedance 10k Ω unbalance
External – Audio output:	-0 dBs/-20 dBs selectable 600 Ω load unbalance/8 Ω 1W speaker
External – Control input:	Low voltage contacts (3.3V DC/1mA)/Voltage input (3-16V)
External – Control output:	No voltage contacts (30V/100mA) /Open collector (3-16V 10mA)



FEATURES

Bridge almost any modern communications system to Icom's universe of Network products and more:

- LTE PTT Products
- Wireless LAN radio products
- Icom IDAS conventional and trunking systems
- Analog radio systems
- P25 systems
- DMR systems
- SIP phone

Built-in controller for IP100H

Call recording to a USB drive

Microphone connection for base operation

Router functions with VPN tunnel

Management Features:

- SYSLOG and SNMP
- Telnet and SSH
- Ping Test and Traceroute Test
- Abnormal condition monitoring, such as LAN port link-down and SIP server registration error
- Administrator password
- SNTP server
- Security slot

WARRANTY

1-Year

Comes With

Antennas

Antenna case cable (1.9ft)

AC adapter (BC-236)

Quick connectors

VE-PG4

RoIP Gateway

Configurations

Model	Description
VEPG4	RoIP gateway with SIM included. Airtime fees apply when the SIM is activated. Power supply included.

Accessories

Model	Description
EXTWARR912	1 year extended warranty
EXTWARR913	2 year extended warranty
EXTWARR914	3 year extended warranty

Cables

OPC2275	5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug).
OPC2389	Cable connecting serial device w/RS232
OPC2390	Cable connecting VEPG4 to FR5000/6000

Microphones

SM26	Desktop microphone with monitor switch for mobile radios
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Miscellaneous

SIM CARD	CONNECT US SIM card for cellular products
SIM TF CARD	CONNECT Global SIM card for cellular products

Remote Communication

RCFS10 36 EXP	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)
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Software & Cables

ISL-AK20AES 16 EXP	IDAS AES Encryption Key for the RC-FS20
ISL-AK20DES 17 EXP	IDAS DES Encryption Key for the RC-FS20
ISL-AK20IDS 13 EXP	IDAS/RoIPActivation Key for the RC-FS20
ISL-AK20TRY 12 EXP	30-day trial license for the RC-FS20
ISL-AK20WLN 14 EXP	Wi-Fi Radio Activation Key for the RC-FS20

WLAN

IP100FS	IP based PC-dispatcher
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Remotatec Dispatch Console

TXRoIP System

SPECS

TXRoIP Server

Platform:	Windows
Radio Protocols:	NXDN, P25, analog
Telephony Protocols:	CSTA, OSCC
Encryption:	DES/AES

TXRoIP Gateway

Power supply:	DC = 9~+36V
Network requirements:	200kbps active 50kbps inactive
Network infrastructure:	100mbps full-duplex ethernet
Memory:	4GB RAM with MSAA SSD HD 50 GB
Connections:	x2 DB25 radio connections
Rear panel connections:	x1 RJ45 input – 10/100/1000 Mbps x2 USB 2.0 input x3 DC power connector 5.5m P8
Dimensions:	19-inch rack mount
Weight:	10.36 lbs (4.7kg)



FEATURES

TXRoIP Dispatch System

- Scalable to small and large packages
- Intercom to other consoles
- Select and unselect audio
- Private, group, and broadcast calls
- Channel/group/zone change
- Dispatcher interrupt/preemption
- Speaker/headset dispatching
- Text integration to send messages to field units
- Track field units via GPS
- Instant recall recording of the last 100 calls
- Radio display status
- Radio check, stun/revive, and emergency

TXRoIP Gateway

- Natively link to analog, IDAS™/NXDN™ and P25 systems
- LCD display for operating status
- Web management interface
- Decodes MDC1200 signaling

Higher-tier configurations are available upon request.

Remotatec Dispatch Console

TXRoIP System

Configurations

Model	Description	
IASGCLSRV	Small business server license. Up to 2 consoles & 4 talkpaths	

Accessories

Model	Description	
IASGC1002	Remotatec gateway TXRoIP console	
IASGCACFOOT	USB foot switch for Remotatec console	
IASGCACMIC	Console gooseneck mic	
IASGCACSPK	Console dual speakers	
IASGCLGPS	GPS license (real time)	
IASGCLREC	Voice recording license	

Discontinued Radios



IP100H

License-free radio for wireless network (WLAN) is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description
Antennas	
3310004800	IP100H antenna
Batteries	
BP272	Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value)
Belt Clips	
MB127	Alligator belt clip
Cables	
OPC2144	Right angle plug adapter cable to plug old straight pin connector headsets into (recommended to use with OPC478UC, not needed with OPC478UD when programming radios)
Chargers	
BC123SA	Straight-angle AC adapter for rapid chargers; 100-240V with US style plug
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug
BC202IP3AC	Kit includes BC-202IP3L rapid charger with BC-123SA AC adapter
BC202IP3L	Rapid charger. Requires either BC123S, BC-228, or CP-25H.
Headsets	
HS94	Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392
HS95	Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392
HS97	Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392
OPC2006LS	Adapter plug with VOX and no PTT to to use with the HS94/95/97
OPC2328	Adapter plug with PTT to to use with the HS94/95/97
Microphones	
HM183LS	Waterproof compact speaker microphone (2-pin connector)
HM186LS	Compact speaker microphone with earphone jack (2-pin connector)
Software & Cables	
OPC478UD	USB programming cable (2-pin connectors handhelds)
Wire Kits	
HM153LS	Microphone with 2.5mm earphone combination (right angle 2-pin connector)
HM166LS	Earphone microphone with two pin right angle connector
SP26	Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS
SP28	Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS
WLAN	
AP95M	Wireless LAN access point
IP100FS	IP based PC-dispatcher
IP1100CV 51 EXP	WLAN controller that manages up to 300 radios. The AC adapter (BC207S) is sld seperately.



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