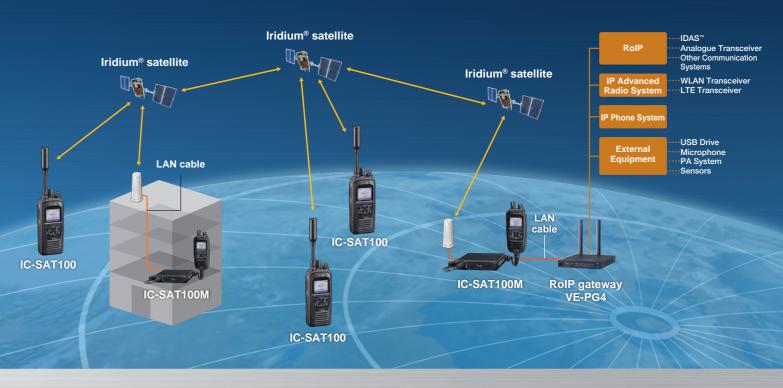


SATELLITE PTT Radios



What is SATELLITE PTT?

The Icom IC-SAT100/M are the dedicated satellite push-to-talk (PTT) radios, and are the only PTT radios offering real-time communications at the push of a button between a group of individuals, each of whom can be anywhere on the planet^{*1}. The IC-SAT100/M use the Iridium[®] satellite communication network, which covers the entire globe, including both poles.



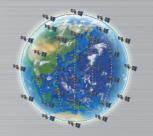
Main Features

One-to-Many Communication



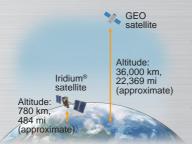
IC-SAT100/M users can immediately start talking to all the radios in the same talkgroup, with just a push of the transmit (PTT) button.

Total Global Coverage, Including the Poles



The Iridium[®] satellite network covers the entire globe, including both poles, and can provide global communications anywhere on the planet^{*1}.

Real-Time Communication



Using 66 Low Earth Orbit (LEO) Iridium[®] satellites, the IC-SAT100/M provides low-latency communication, and broader, more reliable network coverage, compared to Geosynchronous Equatorial Orbit (GEO) satellites.

Interoperability with Conventional Radios



With a VE-PG4 RoIP gateway, the IC-SAT100/M can interconnect with an IP phone, WLAN, LTE, IDAS digital^{*2}, analogue transceivers and other communication systems.

*1 Subscription contracts are required for using the IC-SAT100/M. Depending on the country or region, carrying and/or use of the IC-SAT100/M may be prohibited. *2 Type-D multi-site trunking and conventional systems.

Compact Handheld Satellite PTT Radio

SATELLITE PTT IC-SAT100

- IP67 waterproofing and dust-tight protection
 1500 mW of powerful audio
- 14.5 hours* of long lasting battery life Emergency key on the top panel
- Short Data Message
 Voice Recording function
- Built-in Bluetooth[®] capability
 AES 256-bit encryption for security

And More

- Multiple language display (English, Chinese, French, Japanese, and Spanish)
- Integrated GPS receiver shows a received signal position information on the display
- SMA type antenna connector for an external antenna
- AguaQuake[™] function clears any water ingress that may penetrate the speaker grill of the unit
- USB charging
- Tested to the MIL-STD-810 environmental tests
- * TX : RX : standby = 5 : 5 : 90.

Supplied Accessories

• BP-300 Li-ion battery pack • BC-241 desktop charger • BC-242 AC adapter • FA-S102U antenna • MBB-5 belt clip

Optional Accessories (for the IC-SAT100)

Docking Station for In-Vehicle Use



DOCKING STATION BC-247

Charger cradle for in-vehicle and in-building use. 12/24 V battery compatible. ONE-TOUCH ANTENNA CONNECTOR

FA-S103U

Easily replace the antenna tip to an external antenna. (SMA to BNC) EXTERNAL ANTENNA

AH-40

Magnet mount antenna with 1.5 m, 4.9 ft coaxial cable. SPEAKER-MICROPHONE

HM-222H

Use the HM-222H (or an external headset) to transmit, while the radio is attached to the BC-247.

Active Antenna for In-Building Use

EXTERNAL ANTENNA AH-41

Maximum 169 m; 554.5 ft* coaxial cable for installing in a clear location to obtain a line-of-sight path to the satellite.

* Use optional OPC-2462 (59 m; 193.5 ft) or user supplied coaxial cable (Max. 169 m; 554.5 ft) to meet Iridium® performance requirements, and comply with FCC regulations.



icon

IDU

IC-SAT100 * BC-228, BC-253 and OPC-2461 are supplied with the AH-41.



HEADSET VS-3 Bluetooth® headset



MULTI-CHARGER BC-214N' Charges up to six batteries (with/without transceivers) at the same time. (BC-157S, AC adapter supplied.)



COAXIAL CABLE OPC-2422 Coaxial cable (5D-HFA) for the AH-40. 5 m. 16.4 ft



EXTERNAL ANTENNA AH-38 Pole mount passive antenna. OPC-2113 coaxial cable

separately required.



COAXIAL CABLE OPC-2113 Coaxial cable (5D-HFA) for the AH-38. 10 m: 32.8 ft



COAXIAL CABLE **OPC-2462** Coaxial cable (5D-HFA) for



the AH-41. 59 m: 193.5 ft For more optional accessories.

* The AD-140 charger adapters are supplied with the BC-214N, depending on the charger version.



check the Icom website:

In-Building and In-Vehicle Use

SATELLITE PTT

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Main unit

Speaker-microphone

їсом

Antenna unit (with RF unit)

- Install the antenna unit (with RF unit) to the rooftop, and use the radio from indoors, or even from the basement
- Easy wiring works between the antenna unit (with RF unit) and main unit using a LAN cable (Cat 5e)*1
- Compatible with both 13.2 and 26.4 V DC vehicle power source
- Antenna unit with RF unit: IP67, Main unit: IP54, Microphone: IP55
- 1500 mW powerful audio output

And More

- Voice Recording function Built-in Bluetooth® capability
- Multiple language display (English, Chinese, French, Japanese, and Spanish)
- Integrated GPS receiver shows received signal position
- Short Data Message
 AES 256-bit encryption for security
- Tested to the MIL-STD-810 environmental tests

*1 User supplied LAN cable is required to replace the supplied 20m LAN cable.

Package includes:

- Main unit Antenna unit with RF unit Multi-functional speaker-microphone
- OPC-2435 DC power cable · OPC-2102 LAN cable (20 m, 65.6 ft)
- Mobile bracket for the main unit
 Antenna angle and mounting kits

IC-SAT100/M Short Data Message Applications for iOS™/Android™ devices

 Image: Image:



SHORT DATA MESSAGE APPLICATION

This application lets a user send and receive a short data message from a phone through the satellite. Use Bluetooth[®] connection between the radio and iOS™/Android™ device.

Features

- Easy texting similar to a chat or SNS application using a large display and keyboard on the iOS[™]/Android[™] device
- Download free on App Store or Google Play™

Optional Accessories (for the IC-SAT100M)





EXTERNAL SPEAKER

EXTERNAL SPEAKERS SP-35 / SP-35L SP-35: 2 m, 6.5 ft cable SP-35L: 6 m, 19.6 ft cable

ANTENNA

AH-40

Magnet mount antenna

for in-vehicle use.

1.5 m, 4.9 ft coaxial cable



AC ADAPTER BC-157S 12 V/7.5 A output for use with the main unit.



COAXIAL CABLE OPC-2422 Extension cable between the AH-40 and the radio. 5 m, 16.4 ft



EXTENSION CABLE OPC-2429 Extension cable for use with supplied speakermicrophone 2 m, 6.5 ft



For more optional accessories, check the Icom website:



HEADSET

Bluetooth® headset

VS-3

Antenna You can replace

the antenna with AH-40

RF unit (CPU and Iridium[®] module)

external antenna. (Antenna connector ; SMA)

Optiona





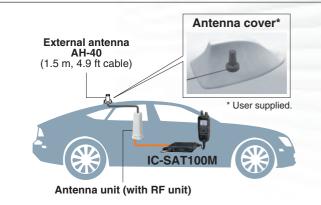
IC-SAT100M Installation Examples



In-Building Use

You can flexibly install the radio and the antenna (with RF unit) with only a LAN cable (Maximum 100 m, 328 ft). Using PoE (Power over Ethernet) capability, the main unit supplies power to the antenna unit through the LAN cable. Connect your PoE injector or switch to extend the distance between the main unit and the antenna unit. (802.3at compatible)

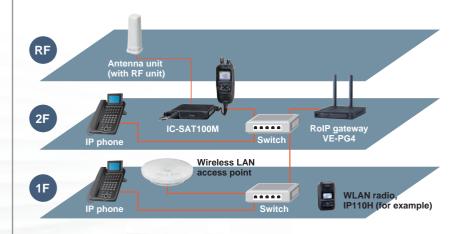
 * User supplied LAN cable is required to replace the supplied 20 m LAN cable.



Installation for Mobile Use

For a vehicle use, optional AH-40* must be used for optimal performance and environmental resilience. It must be placed on the top of the roof (highest point) with least sky blocking objects around it. When you use a third-party antenna cover, you can cover the AH-40 making it look more discreet.

* To install the AH-40, drilling a hole on the antenna unit (with RF unit) cover is required.



Advanced System Example with VE-PG4

The VE-PG4 is a versatile RoIP (Radio over IP) gateway unit, which seamlessly interconnects a satellite PTT radio with L MR radios, LTE radios, WLAN radios, IP phone systems, and external devices. In addition to the IP Network (LAN/WAN), the built-in LTE module* provides virtually nationwide communication coverage.

* Service availability depends on the country. Network coverage provided by a custom SIM card.

