

## ICOM Satellite PTT Radios

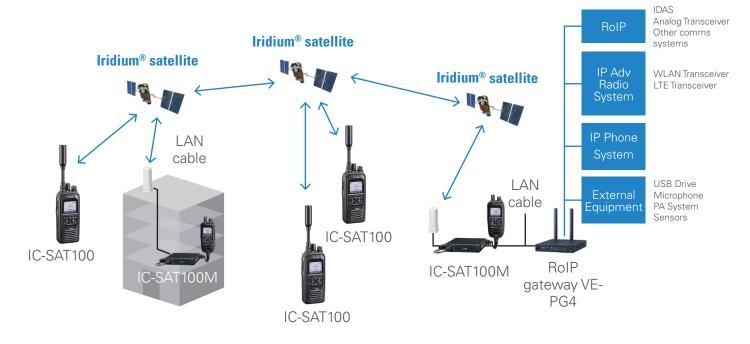
The lcom IC-SAT100/M uses the Iridium satellite network to provide realtime communications at the push of a button, covering the entire globe including both poles.

- Global Coverage
- Utilizing the Iridium Satellite
  Network
- Real-Time Communication
- Connect With a Talkgroup



## What is **SATELLITE PTT**?

SATELLITE PTT (Push-To-Talk) is a two-way radio system that uses the Iridium<sup>®</sup> satellite network. It can be used as a communication tool in remote, isolated areas where there are no mobile phones or landline network infrastructure. SATELLITE PTT can provide a stable back-up, independent from other networks.



## **Main Features**

## **One-to-Many Communication**

At the push of a button, IC-SAT100/M users are able to talk to a number of radios in the same talkgroup, each of whom can be anywhere on the planet.

## **Global Coverage**

The Iridium satellite network covers the globe, including both poles, and can provide users with connectivity anywhere on the planet.



## **Real-Time Communication**

Using 66 Low Earth Orbit (LEO) Iridium satellites, the IC-SAT100/M provides low latency communication, offering broader and more reliable connectivity in comparison to Geosynchronous Equatorial Orbit (GEO) satellites.

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## **Interoperability with Conventional Radios**

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

## **Built-in Emergency Key**

The orange key on the top panel can be used for emergency situations. You can transmit an emergency call to preprogrammed users with holding down the key.

## **SATELLITE PTT IC-SAT100**

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Compact handheld satellite PTT radio

## Waterproof, Dust-tight and Durable Body

The IC-SAT100 provides IP67 waterproofing (1 m depth of water for 30 minutes) and dust-tight protection, making it ideal for use in harsh outdoor environments. The radio also meets MIL-STD 810G specifications. The operating temperature range is from  $-30^{\circ}$ C to  $+60^{\circ}$ C ( $-22^{\circ}$ F to 140 °F).

## **Long Lasting Battery Life**

The supplied BP-300 Li-ion battery pack provides 14.5 hours of operation.

## 1500 mW Powerful Audio

1500 mW audio delivered from the internal speaker provides loud and clear communication, even in noisy environments.

## And more

- Secure conversations with AES encryption
- Short Data Message
- Voice Recording function
- Multiple language display
- Built-in Bluetooth
- SMA type antenna connector for an external antenna
- AquaQuake<sup>™</sup>function clears any water ingress that may penetrate the speaker grill
- Compatible with other Iridium<sup>®</sup> PTT devices, including Iridium Extreme<sup>®</sup> PTT

## **Supplied Accessories**

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

VNET



## **Optional Accessories**



Docking Station for In-Vehicle Use (BC-247): With the AH-40 optional antenna, you can use the IC-SAT100 in a vehicle (by attaching the antenna to the roof).



Antenna (AH-41): Can be set maximum 55 m; 180.4 ft away from the radio. Supplied with OPC-2422 and DC power supply.

Antenna AH-38): OPC-2113 optional coaxial cable required (10 m, 32.8 ft).

Multi-Charger (BC- 214N): Charges up to six batteries at the same time.

Headset (VS-3): Bluetooth headset.

Coaxial Cable (OPC-2422): 5 m, 16.4 ft

Coaxial Cable (OPC-2113): 10 m, 32.8 ft

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# **SATELLITE PTT IC-SAT100M**

In-Building and In-Vehicle Use

## Waterproof, Dust-tight and Durable Body

The IC-SAT100 provides IP67 waterproofing (1 m depth of water for 30 minutes) and dust-tight protection, making it ideal for use in harsh outdoor environments. The radio also meets MIL-STD 810G specifications. The operating temperature range is

from  $-30^{\circ}$ C to  $+60^{\circ}$ C ( $-22^{\circ}$ F to 140 °F).

## Secure Communications

Provides secure conversations with AES 256-bit encryption.

## 1500 mW Powerful Audio

1500 mW audio delivered from the internal speaker provides loud and clear communication, even in noisy environments.

### And more

- Voice recording function
- Short Data Message
- Integrated GPS receiver shows incoming signal position.
- Multiple language display
- Built-in Bluetooth

## **Supplied Accessories**

- Multi-functional speaker-microphone
- OPC-585 DC power cable
- OPC-2102 LAN cable (20 m, 65.6 ft)
- Mobile bracket

## Flexible Installation with a PoE Switch & IP Network

Using a PoE (Power over Ethernet) switch (for power supply to the antenna) and IP network, you can install the IC-SAT100M easily. In this installation scenario, you don't need to worry about the distance between the antenna (with RF unit) and the main unit.

## Low Visibility Installation for Mobile Use

The optional AH-40 antenna provides flexible antenna installation. Simply replace the antenna with AH-40, and mount it on the roof instead of the RF unit.



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## **IC-SAT100M Installation Examples**

In-Building Use: You can install the IC-SAT100M and the antenna with a LAN cable (maximum 100 m, 328ft).

Mobile Use: By attaching the antenna to the roof, you're able to use the radio inside a vehicle. The IC-SAT100M has bluetooth capability and allows hands-free operation.

## **Optional Accessories**



Antenna (AH-40): For in-vehicle use. 1.5 m, 4.9 ft.



**External speaker (SP-30):** 20W rated input power (30W max. input) external speaker.



External speakers (SP-35 / SP-35L): 6 m cable

Headset (VS-3): Bluetooth headset. Coaxial Cable (OPC-2422): 5 m, 16.4 ft Extension Cable (OPC-2429): 2 m, 6.5 ft



## **SATELLITE PTT Radios**

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### IC-SAT100

Frequency range	1616 MHz to 1626.5 MHz
Dimensions (W x H x D)	57.8 x 135 x 32.8 mm, 2.3 x 5.3 x 1.3 in
Weight (approximate)	360 g, 12.7 oz (with BP -300 and antenna)
Operational temperature range	-30°C to +60°C, -22°F to 140°F
Audio output power: Internal speaker External speaker	1500 mW typical 1000mW typical
Battery life (approximate)	14.5 hours (TX : RX : standby = 5 : 5 : 90)
Power supply voltage	-
IP rating	IP67
Talkgroup	15 groups (maximum)
Antenna connector	SMA
IC-SAT100M	
Frequency range	1616 MHz to 1626.5 MHz
Dimensions (W x H x D)	Antenna with RF unit: 76.8 x 200 x 76.8 mm 3 x 7.9 x 3 in Main unit: 125 x 29 x 156 mm 4.9 x 1.1 x 6.1 in Microphone: 59.6 x 130.2 x 28.4 mm 2.3 x 5.1 x 1.1 in
Weight (approximate)	TBD
Operational temperature range	-30°C to +60°C, -22°F to 140°F
Audio output power: Internal speaker External speaker	1500 mW typical 4mW typical
Battery life (approximate)	-
Power supply voltage	13.2 V / 26.4 V DC
IP rating	IP67 (antenna with RF unit) IP55 (mic) IP54 (main unit)
Talkgroup	15 groups (maximum)
Antenna connector	SMA (for external antenna)







