

 ICOM

SATELLITE PTT

IC-SAT100

***One-to-Many Global Communications
with Just a Push of a Button***



 **iridium**[®]
connected

Real-Time Communications



What is SATELLITE PTT?

SATELLITE PTT (Push-To-Talk) is a two-way radio system that uses the Iridium® satellite network. It can be used as a communication tool in remote, isolated areas where there are no mobile phones or landline network infrastructure. Even if terrestrial network infrastructure is rendered unusable by human or natural disasters, SATELLITE PTT can provide a stable back-up, independent from other networks.



One-to-Many Communications

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



Q & A

What about communication fees?

A. Communication fees are typically charged at a flat rate through a monthly plan, and there are no additional call charges.* Communication fees differ, depending on the coverage area and the number of the IC-SAT100.

* Depending on the country or area, a flat charge plan may not apply, or the service may not be available.

Coverage area

Size	Small	Medium	Large	Extra Large	Jumbo
Coverage area	100,000 km ² , 38,610 mi ² (radius 178 km, 111 mi)	300,000 km ² , 115,830 mi ² (radius 309 km, 192 mi)	750,000 km ² , 289,577 mi ² (radius 480 km, 298 mi)	1,500,000 km ² , 579,153 mi ² (radius 691 km, 429 mi)	2,250,000 km ² , 868,729 mi ² (radius 846 km, 526 mi)

What is a "Talkgroup"?

A. Using SATELLITE PTT, you can communicate with other IC-SAT100 radios assigned to the same Talkgroup.

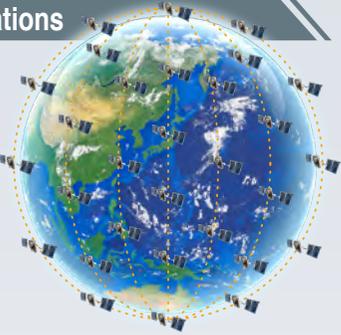
SATELLITE PTT
IC-SAT100

Across the Globe

Wide Area Global Communications

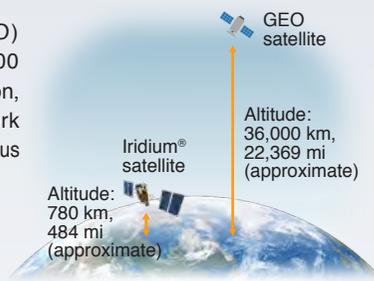
The Iridium® satellite network covers the entire earth, including both poles, and can provide wide area global communications anywhere on the planet*.

* Depending on the country or region, carrying and/or use of the IC-SAT100 may be prohibited.



Real-Time, Low-Latency Communication

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



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.



Emergency key

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° C to +60° C (-22 °F to 140 °F).



In-Vehicle or In-Building Use

With the AH-40 optional antenna, you can use the IC-SAT100 in the vehicle (by attaching it to the roof) or building (by placing outside a window). The IC-SAT100 has Bluetooth® capability, and allows hands-free operation while driving.



▲ AH-40 optional antenna

◀ BC-247 optional docking station

* Product image for illustration purposes only.

Private Conversations

The IC-SAT100 provides secure conversations with AES 256-bit encryption.

And more

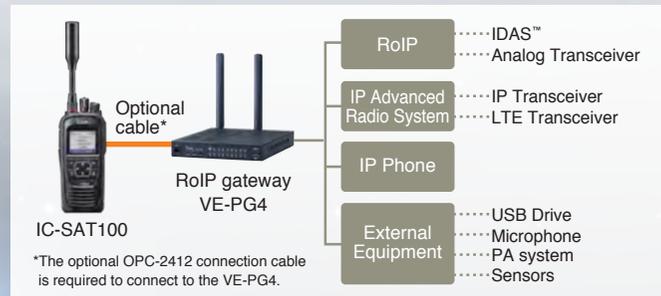
- 1500 mW powerful audio
- 14.5 hours* of long lasting battery life
- Short Data Message function
- Voice Recording function
- Multiple language display (English, Chinese, French, Japanese, and Spanish)
- Bluetooth® capability
- Integrated GPS receiver shows a received position information on the display
- SMA type antenna connector for an external antenna
- AquaQuake™ function clears any water ingress that may penetrate the speaker grill of the unit
- USB charging (USB Micro-B type)

* Approximate. Operating periods are calculated under the following conditions.
TX : RX : standby = 5 : 5 : 90

Conventional Radios and IP Phones Interconnection

With a VE-PG4 RoIP gateway, the IC-SAT100 can interconnect with an IP phone, IP, LTE, IDAS digital* and analog transceivers.

* Type-D multi-site trunking and conventional systems.



* The optional OPC-2412 connection cable is required to connect to the VE-PG4.

How do I assign a coverage area?

A. The coverage area can be split into different coverage regions, using circles, squares, and rectangles. For example, you can assign coverage areas to Tokyo, New York and London.

Coverage region example



Can I change my Talkgroup and/or the region within a coverage area?

A. Yes, you can flexibly change these settings* on the Iridium® website (<https://ptt.iridium.com/>).

* To change the contents of a contract may require an application in advance.

Can I use the IC-SAT100 in any location?

A. The IC-SAT100 can be used in open spaces, like the rooftop of a building. Receiving and transmitting may fail, depending on the satellite position or any obstacles between the radio and satellites. Your body can also be an obstacle. Hook the radio upright on your shoulder rather than on your waist.

Can the IC-SAT100 make phone calls?

A. No, the IC-SAT100 is PTT (Push-To-Talk) use only. Using the optional VE-PG4* RoIP gateway, the IC-SAT100 will be able to communicate with other networks.

* The optional OPC-2412 connection cable is required to connect to the VE-PG4.

SPECIFICATIONS

		IC-SAT100
Dimensions (W x H x D; projections are not included)		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)
Display (W x H, approximate)		33 x 27 mm, 1.3 x 1.1 in (viewing area)
Operational temperature range		-30°C to +60°C, -22 °F to 140 °F
Audio output power	Internal speaker	1500 mW typical (At 5% distortion into an 8 Ω load)
	External speaker	1000 mW typical (At 5% distortion into an 8 Ω load)
Battery life (Approximate)		14.5 hours (TX : RX : standby = 5 : 5 : 90)
Talkgroup		15 groups (Maximum)
Antenna connector		SMA

Measurements made in accordance with FCC 47 CFR Part25 & 2, Canada RSS-170&RSS-GEN, EN. All stated specifications are subject to change without notice or obligation.

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

OPTIONS

<p>BATTERY PACK</p>  <p>BP-300 7.2 V/2200 mAh (min.) 2350 mAh (typ.) Same as supplied.</p>	<p>CHARGER</p>  <p>BC-241 Rapid charger. Same as supplied. (BC-242, AC adapter supplied.)</p>	<p>MULTI-CHARGER</p>  <p>BC-214N*1 Charges up to six batteries (with/without transceivers) at the same time. (BC-157S, AC adapter supplied.)</p>	<p>SPEAKER-MICROPHONE</p>  <p>HM-222 Waterproof speaker-microphone with 3.5 mm jack.</p>	<p>TIE-CLIP MICROPHONE</p>  <p>HM-163MC Tie-clip microphone with 2.5 mm jack.</p>	<p>ACC ADAPTER</p>  <p>AD-135 3.5 mm jack earphone adapter.</p>
<p>ACC ADAPTER</p>  <p>AD-118 For use with Hirose plug accessory.</p>	<p>EARPHONES</p>				
<p>EARPHONES</p>  <p>EH-15B 2.5 mm plug. Use with HM-163MC.</p>	<p>SP-32 Tube earphone adapter. Use with EH-15B.</p>	<p>SP-26 2.5 mm plug. Use with HM-163MC.</p>	<p>SP-27 3.5 mm plug. Use with HM-222 or AD-135.</p>	<p>SP-28 2.5 mm plug. Use with HM-163MC.</p>	<p>SP-29 3.5 mm plug. Use with HM-222 or AD-135.</p>
<p>EARPHONES</p>  <p>SP-40 3.5 mm plug. Use with HM-222 or AD-135.</p>	<p>PTT SWITCH CABLE</p>  <p>VS-5MC For manual PTT, VOX operation.</p>	<p>HEADSETS</p>			
<p>Bluetooth® HEADSET</p>  <p>VS-3</p>	<p>DC POWER CABLE</p>  <p>OPC-656 Use with BC-214N.</p>	<p>ANTENNAS</p>  <p>FA-S102U Same as supplied.</p>	<p>HEADSETS</p>  <p>HS-94 Earhook type with boom microphone. Use with VS-5MC.</p>	<p>HS-95 Behind-the-head type. Use with VS-5MC.</p>	<p>HS-97 Throat microphone type. Use with VS-5MC.</p>
<p>DOCKING STATION</p>  <p>BC-247*2 Charger cradle for in-vehicle and in-building use.</p>	<p>OTHER OPTIONS</p>				
		<p>OPC-2412 Connection cable for VE-PG4. 5 m, 16.4 ft length.</p>			<p>OPC-2422 Coaxial cable for AH-40. 5 m, 16.4 ft length.</p>
					<p>MBB-5 Belt clip. Same as supplied.</p>

*1 The AD-140 charger adapters are supplied with the BC-214N, depending on the charger version. *2 Use an external microphone or headset to transmit when the transceiver is attached to the BC-247.

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