

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)	360g, 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

BATTERY PACK



BP-300
7.2 V/2200 mAh (min.)
2350 mAh (typ.) Same as supplied.

CHARGER



BC-241
Rapid charger. Same as supplied.
(BC-242, AC adapter supplied.)

MULTI-CHARGER



BC-214N*
Charges up to six batteries (with/without transceivers) at the same time.
(BC-157S, AC adapter supplied.)
*The AD-140 charger adapters are supplied with the BC-214N, depending on the charger version.

SPEAKER-MICROPHONE



HM-222
Waterproof speaker-microphone with 3.5 mm jack.

TIE-CLIP MICROPHONE



HM-163MC
Tie-clip microphone with 2.5 mm jack.

ACC ADAPTER



AD-135
3.5 mm jack earphone adapter.

ACC ADAPTER



AD-118
For use with Hirose plug accessory.

EARPHONES



EH-15B
2.5 mm plug. Use with HM-163MC.



SP-32
Tube earphone adapter. Use with EH-15B.



SP-26
2.5 mm plug. Use with HM-163MC.

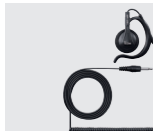


SP-27
3.5 mm plug. Use with HM-222 or AD-135.



SP-28
2.5 mm plug. Use with HM-163MC.

EARPHONES



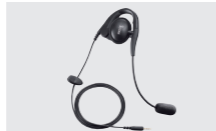
SP-29
3.5 mm plug.
Use with HM-222 or AD-135.



SP-40
3.5 mm plug.
Use with HM-222 or AD-135.



VS-5MC
For manual PTT, VOX operation.



HS-94
Earhook type with boom microphone. Use with VS-5MC.



HS-95
Behind-the-head type. Use with VS-5MC.



HS-97
Throat microphone type. Use with VS-5MC.

Bluetooth® HEADSET



VS-3

BELT CLIP



MBB-5
Same as supplied.

ANTENNA



FA-S102U
Same as supplied.

CABLES



OPC-656
DC power cable. Use with BC-214N.



OPC-2412
Connection cable for VE-PG4. 5 m, 16.4 ft length.

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Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to, and passed, the following MIL-STD requirements and strict environmental standards.

Standard	MIL-810 G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	—
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810 -C, -D, -E and -F.

Ingress Protection Standard	
Dust & Water	IP67/55/54

ICOM

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Real-Time Communications Across the Globe



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

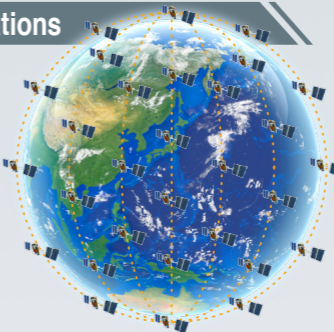
Unlike satellite phones, IC-SAT100 users can immediately start talking to all the radios in the same talkgroup, with just a push of the transmit (PTT) button.



Wide Area Global Communications

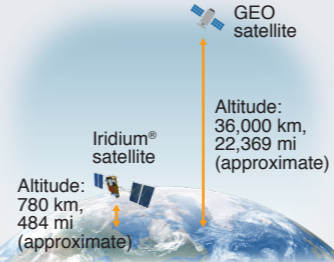
The Iridium® satellite network covers the entire earth, including both poles, and can provide wide area global communications anywhere on the planet*.

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



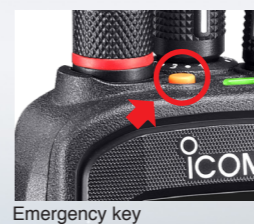
Real-Time, Low-Latency Communication

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.



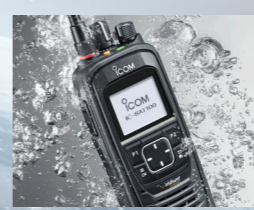
Built-in Emergency Key

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.



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).



1500 mW Powerful Audio

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

Long Lasting Battery Life

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

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

Private Conversation

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

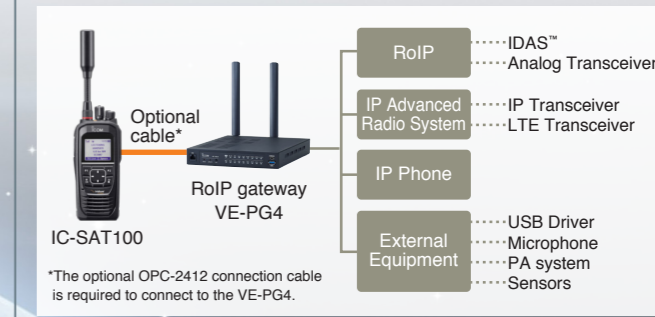
And more

- Secure conversations with AES256 bit encryption
- Short Data Message function
- Voice Recording function
- Multiple language display (English, Chinese, French, Japanese, and Spanish)
- Built-in Bluetooth®
- 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)

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. (Planned feature)

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



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

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. Up to 15 Talkgroups are available.

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 (planned feature).

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

SATELLITE PTT
IC-SAT100