ICOM IC-SAT100 Push-To-Talk

One-to-Many global communications with just a push of a button.

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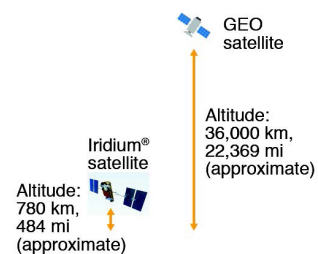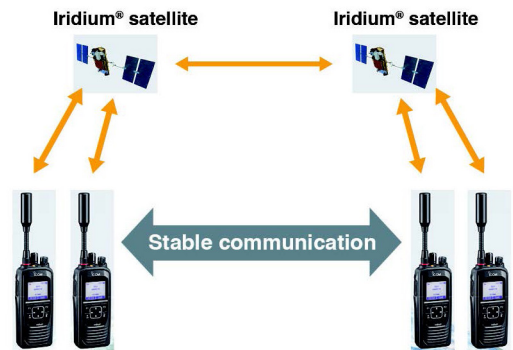
* Depending on the country or region, carrying and/or use of the IC-SAT100 may be prohibited.

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.

Iridium® satellite   Iridium® satellite

Stable communication

GEO satellite

Altitude: 36,000 km, 22,369 mi (approximate)

Iridium® satellite

Altitude: 780 km, 484 mi (approximate)

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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

And more

- Secure conversations with AES encryption
- Short Data Message function
- Voice Recording function
- Multiple language display (English, Chinese, French, Japanese, and Spanish)
- Built-in Bluetooth®
- Integrated GNSS receiver
- SMA type antenna connector for an external antenna
- AquaQuake™ function clears any water ingress that may penetrate the speaker grill of the unit
- Compatible with other Iridium® PTT devices, including Iridium Extreme® PTT**

** Some specific functions may not be compatible. Checking with your local supplier before purchasing is highly recommended.

Supplied Accessories

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

ICOM IC-SAT100 Specifications

Dimensions (W × H × D; projections are not included)	57.8 × 135 × 32.8 mm, 2.3 × 5.3 × 1.3 in
Weight (Approximate)	360g, 12.7 oz (with BP-300 and antenna)
Display (W × H, approximate)	33 × 27 mm, 1.3 × 1.1 in (viewing area)
Operational temperature range	–30°C to +60°C, –22 °F to 140 °F

Audio output power
        Internal speaker
        External speaker
	At 5% distortion into an 8 Ω load
	1500 mW typical
	1000 mW typical

Battery life (Approximate)	14.5 hours (TX : RX : standby = 5 : 5 : 90)
Talkgroup	15 groups (Maximum)
Antenna connector	SMA

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, II
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

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.