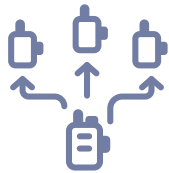


IC-SAT100M

REAL-TIME AND SECURE GROUP COMMUNICATIONS ON LAND

IC-SAT100M is a dedicated satellite push-to-talk radio engineered for in-vehicle and in-building operations. Operating over 66 LEO satellites on the pole-to-pole Iridium network, it connects every radio in the same talkgroup at the push of a button, with no dependency on terrestrial or GSM infrastructure. The antenna unit mounts outside and links to the main unit over a single CAT5e cable of up to 100 m, keeping teams connected indoors, inside vehicles and below ground. Talkgroups are managed centrally through the Iridium PTT Command Center, and IC-SAT100M shares those talkgroups with IC-SAT100 handhelds and Iridium Extreme PTT handsets, uniting vehicle, base and field users on a single channel.

FEATURES



Instant
one-to-many PTT



Pole-to-pole
Iridium coverage



In-building
and in-vehicle use



Single cable installation
up to 100 m



AES 256-bit encrypted
service



Interoperable across
Iridium PTT devices

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Weight:

- Antenna unit: 500 g
- Main unit: 950 g
- Main unit + Microphone: 1200 g

Dimensions:

- Antenna unit: 76.8 x 200 x 76.8 mm
- Main unit: 125 x 29 x 156.5 mm
- Microphone: 59.5 x 134.6 x 30.1 mm

COMMUNICATION CAPABILITIES

Real-time one-to-many PTT

Talkgroups: up to 15, managed via the Iridium PTT Command Center

Coverage areas: five selectable sizes

Short Data Message

Voice recording function

FREQUENCY

1616 MHz to 1626.5 MHz

SAFETY AND SECURITY

Integrated GPS receiver

AES 256-bit encrypted Iridium PTT service

POWER

Power supply voltage: 13.2 V / 26.4 V DC

Operating range: 10.5 to 32 V DC

Power over Ethernet from main unit to antenna unit, 802.3at compatible

AUDIO OUTPUT POWER

- Internal speaker: 1500 mW typical (8 Ω)
- External speaker: 4 W typical (4 Ω)

ENVIRONMENTAL CONDITIONS

Operational temperature: -30°C to +60°C

Ingress protection:

- Antenna unit: IP67
- Main unit: IP54
- Microphone: IP55

Tested to MIL-STD-810G

INTERFACES

Antenna connector: SMA

Antenna to main unit: CAT5e LAN cable, up to 100 m

Built-in Bluetooth, hands-free operation

Interconnection with IP phone, WLAN, LTE, IDAS digital and analog transceivers via the optional VE-PG4 RoIP gateway

Interoperable with IC-SAT100 handhelds and Iridium Extreme PTT handsets in the same talkgroup

LANGUAGES

EN, CN, FR, DE, JA, ES

IN THE BOX

Main unit

Antenna unit with RF unit

Multi-functional speaker-microphone

OPC-2435 DC power cable

OPC-2102 LAN cable (20 m)

Mobile bracket for the main unit

Antenna angle and mounting kits

USE CASES

GOVERNMENT AND PUBLIC SAFETY

Coordinate command centres, patrol vehicles and field officers in a single talkgroup, independent of terrestrial networks. Talkgroups and coverage areas are configured centrally in the Iridium PTT Command Center, communications run over the AES 256-bit encrypted Iridium PTT service, and an optional VE-PG4 gateway brings existing IP phone, LTE, IDAS and analog radio estates into the same operational picture.

HUMANITARIAN OPERATIONS

Keep convoys, field offices and mobile missions in contact from the first hours of a response. With the antenna unit mounted outside and linked to the radio by a single cable run of up to 100 m, teams communicate from inside compounds, shelters, warehouses and vehicles, where handheld satellite devices cannot hold a stable link. Base radios and IC-SAT100 handhelds carried by field staff operate in the same talkgroup.

ENERGY AND REMOTE SITES

Maintain instant voice coordination across rigs, pipelines, plants and remote camps where GSM coverage is absent or unreliable. Tested to MIL-STD-810G and rated IP67 at the antenna unit, IC-SAT100M withstands salt fog, dust, vibration and temperature extremes, while flat-rate Iridium PTT airtime keeps site communication costs predictable regardless of traffic volume.

