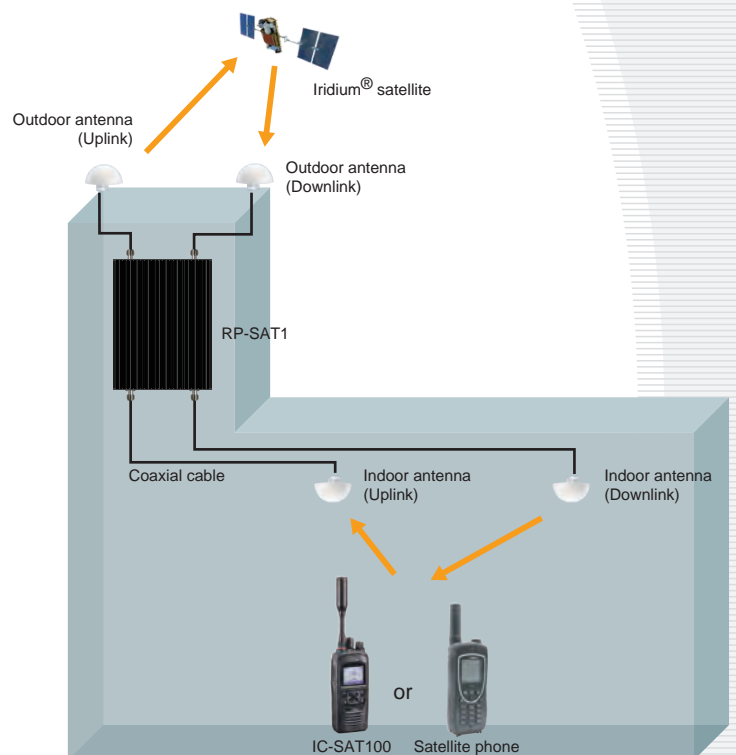


In-Building Repeater for Iridium® Satellite Communications

- Relays Iridium® and GNSS signals, and provides a solution for satellite communications indoors and mobile applications
- Indoor coverage: Maximum 5 m
- RF gain level can be adjusted on the front panel (40 to 50 dB)
- Compact design offers flexible installation: 265 × 55 × 170 (W × H × D, mm), 10.4 × 2.2 × 6.7 (W × H × D, inch)
- Not only satellite PTT (IC-SAT100), but also Iridium® satellite phones and SBD (Short Burst Data) service can be used
- Use supplied coaxial cables (5 m, 16.4 ft for indoor and 10 m, 32.8 ft for outdoor) or user supplied coaxial cables*¹

*¹ Outdoor cable: 5 dB or less attenuation. Indoor cable: 3 dB or less attenuation.



Image

Make sure you comply with all applicable laws and regulations in your country before installation. DO NOT use more than two terminals at the same time as it may interfere with the GPS band.



RP-SAT1

SPECIFICATIONS

RP-SAT1	
GENERAL	
Frequency range	1616.02–1626.48 MHz (Uplink/Downlink) 1575.42–1605.40 MHz (Downlink, GNSS L1 Band)
Antenna impedance	50 Ω (N-J connector)
Operating temperature range	–30°C to +60°C, –22°F to +140°F
Power supply requirement	13.2/26.4 V DC nominal (10–32 V DC Operating Voltage)
Current drain (approximate)	Less than 8.0 A (at relay) Less than 2.5 A (stand-by)
Dimensions (W×H×D) (Projections not included)	265 × 55 × 170 mm, 10.4 × 2.2 × 6.7 in
Weight (approximate)	2.6 kg, 5.7 lb
UPLINK	
Total gain	40–50 dB (1 dB step adjustable) Gain 40 dB at 0 dBm Input Gain 50 dB at –10 dBm Input
Rated output power	+40 dBm
EVM	Less than 7%
Spurious emissions	Less than –13.0 dBm
DOWNLINK	
Total gain	40–50 dB (1 dB step adjustable) at –80 dBm Input
Noise figure	Less than 3.0 dBm
Spurious emissions	Less than –13.0 dBm

All stated specifications are subject to change without notice or obligation.

Supplied accessories:

- OPC-2430, 5 m, 16.4 ft coaxial cables for indoor, 2 pieces
- OPC-2431, 10 m, 32.8 ft coaxial cables for outdoor, 2 pieces
- AH-38, satellite antennas, 4 pieces
- OPC-2426, DC power cable, 1 piece

OPTIONAL ACCESSORY

AC ADAPTER
BC-236, 12 V/8.3 A output



SATELLITE PTT
IC-SAT100

- IP67 waterproofing and dust-tight
- 1500 mW of powerful audio
- 14.5 hours of long lasting battery life*
- Emergency key on the top panel
- Short Data Message
- Voice Recording function
- Built-in Bluetooth® capability
- SMA type antenna connection
- USB charging
- AES 256-bit encryption for security

* TX : RX : standby = 5 : 5 : 90.



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