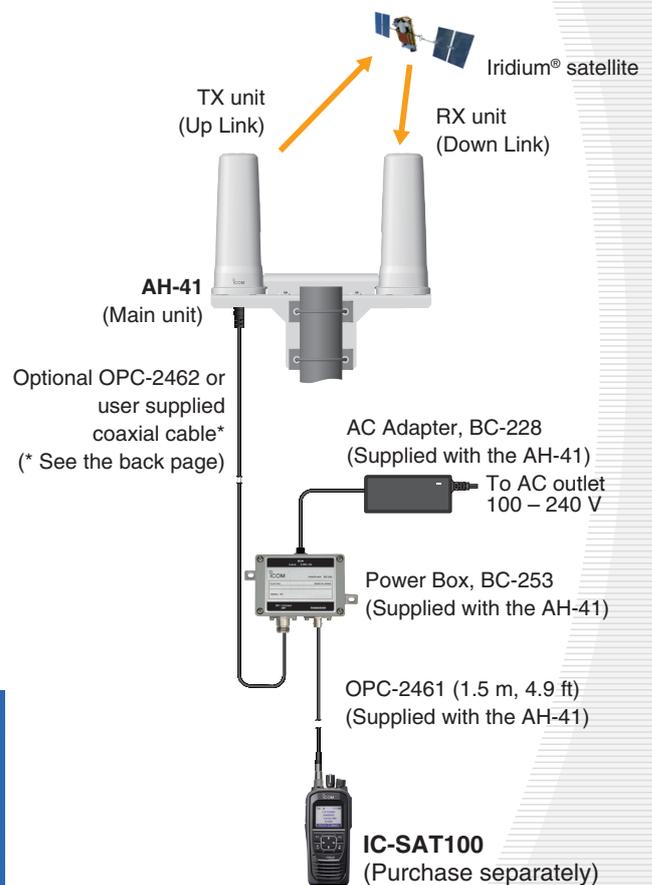


Active Satellite Antenna System for Using the IC-SAT100 Satellite PTT Radio in a Building

- Covers both Iridium® satellite frequencies and GNSS L1 band frequencies, and provides a solution for satellite communications indoors
- Use optional OPC-2462 (59 m, 193.5 ft) or user supplied coaxial cable (Max. 169 m, 554.5 ft) to obtain a line-of-sight path to the satellite
- Power over Coaxial (PoC) carries electrical power through the coaxial cable – Electrical power cabling can be reduced
- Separate TX/RX unit configuration, TX unit with a Power Amplifier and RX unit with a LNA (Low Noise Amplifier)
- The main unit has IP67 waterproof and dust-tight protection for outdoor installation



SPECIFICATIONS

GENERAL	
Frequency range	1616.02–1626.48 MHz (TX unit/RX unit) 1575.42–1605.4 MHz (RX unit, GNSS L1 band)
Antenna impedance	50 Ω nominal (N-J connector)
Polarization	Right-hand circular
Operating temperature range	–25°C to +55°C, –13°F to +131°F
Current drain (approximate)	Less than 2.5 A (at relay) Less than 0.8 A (stand-by)
Dimensions (W × H × D) (projections not included)	310 × 326 × 89 mm (TX/RX units + bracket) 77 × 200 × 77 mm (each unit)
Weight (approximate)	1.6 kg, 3.5 lb

TX UNIT	
Rated output power	37.7 dBm ± 1 dB (at 23.3 dBm input to TX unit)
Spurious emissions	0.25 μW (≤ 1 GHz), 1.0 μW (> 1 GHz)

RX UNIT	
Total gain	17 dB ±1.5 dB (at –80 dBm input to RX unit)
Noise figure	Less than 3.0 dB
Spurious emissions	0.25 μW (≤ 1 GHz), 1.0 μW (> 1 GHz)

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

Applicable IP Rating

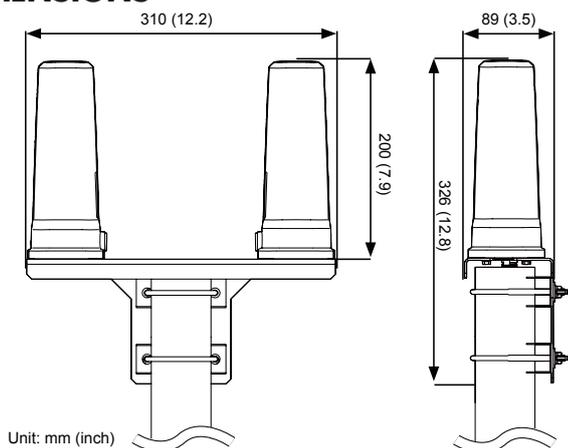
Ingress Protection Standard	
IP rating (AH-41 main unit)	IP67 (Waterproof and dust-tight)

Packing Includes :

- Main unit (TX/RX units and bracket)
- OPC-2461, Coaxial cable (1.5 m, 4.9 ft)
- BC-253, Power box
- BC-228, AC adapter
- Mounting kit (U-bolts, pole clamps, washers and nuts)



DIMENSIONS



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OPTIONAL ACCESSORY



OPC-2462
COAXIAL CABLE (5D-HFA)
(59 m, 193.5 ft)

SUGGESTED MAIN ANTENNA CABLES

Use optional OPC-2642 or user supplied coaxial cable to meet Iridium® performance requirements, and comply with FCC regulations.

Cable loss requirement from Power box to the AH-41	12.5–13.0 dB loss at 1621 MHz
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Reference Cable	Diameter	Cable Length
Times Microwave Systems		
LMR 195	4.95 mm, 0.195 inch	27 m, 88.6 ft
LMR 240	6.10 mm, 0.240 inch	39 m, 128.0 ft
LMR 300	7.62 mm, 0.300 inch	49 m, 160.8 ft
LMR 400	10.29 mm, 0.405 inch	75 m, 246.1 ft
LMR 500	12.70 mm, 0.500 inch	92 m, 301.8 ft
LMR 600	14.99 mm, 0.590 inch	115 m, 377.3 ft
LMR 900	22.10 mm, 0.870 inch	169 m, 554.5 ft

Above cable lengths are for your reference which are calculated by the target cable loss at 1500 MHz.

- 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.

SATELLITE PTT IC-SAT100

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