

HC600 Iridium Antenna

Frequency Coverage: Iridium

Overview

The HC600 is a lightweight passive helical antenna covering the Iridium frequency band (1616 MHz to 1626.5 MHz) and is designed to enhance the signal-to-noise ratio of communications over the Iridium voice and data modems.

Weighing 18 g, the lightweight HC600 features a precision-tuned helix element that provides excellent axial ratios and operates without the requirement of a ground plane, making it ideal for a wide variety of applications including Unmanned Aerial Vehicles (UAVs).

The HC600 is protected by a robust, military-grade plastic enclosure with an integrated SMA connector for screw-on mounting that securely seals the unit with an O-ring, complying with IP67 standards. The enclosure also provides two threaded holes in the base for secure attachment of the unit.



Applications

- Iridium™ Voice and Data Applications
- Sea & Land Container Tracking
- Military & Security
- Fleet Management & Asset Tracking
- Marine & Avionics Systems
- Law Enforcement & Public Safety

Features

- 3.7 dBic gain over full bandwidth
- Axial ratio: ≤ 0.5 dB max.
- 15 kV ESD circuit protection
- IP67 weather proof housing
- Robust Industrial grade enclosure
- Operates from -40°C to $+85^{\circ}\text{C}$

Benefits

- Extremely lightweight (18 g)
- Excellent circular polarized signal reception
- Industrial temperature range
- Rugged design
- Ideal for harsh environments
- REACH, and RoHS compliant
- Remote SBD antenna

About Tallysman: With global headquarters and manufacturing in Ottawa, Canada, Tallysman is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Tallysman's mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at www.tallysman.com

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Antenna

Architecture Iridium, RHCP Quadrifilar Helix

| | | Gain | Axial Ratio |
|---------------------------------|-----|---------------------|--------------|
| | | dBic typ. at Zenith | dB at Zenith |
| GNSS | | | |
| GPS | L1 | - | - |
| | L2 | - | - |
| | L5 | - | - |
| GLONASS | G1 | - | - |
| | G2 | - | - |
| | G3 | - | - |
| Galileo | E1 | - | - |
| | E5a | - | - |
| | E5b | - | - |
| | E6 | - | - |
| BeiDou | B1 | - | - |
| | B2 | - | - |
| | B3 | - | - |
| IRNSS/NavIC | L5 | - | - |
| QZSS | L6 | - | - |
| Satellite Communications | | | |
| Iridium | | 3.7 | ≤ .5 max. |
| Globalstar | | - | - |

Environmental

Operating Temp. Range ... -40°C to +85°C

Vibration 3-axis, sweep = 15 min, 10 to 200 Hz
sweep: 3 G

Shock Vertical axis: 50 G, other axes: 30 G

Compliance RoHS and REACH compliant

Other

Warranty One year – parts and labour

Ordering Information

HC600 - Passive Iridium Helical Antenna

Part Number: 33-HC600

Electrical

Frequency Bandwidth ... 1616-1626.5 MHz

VSWR <1.5:1 typ. 1.8:1 max.

ESD Circuit Protection ... 15 kV air discharge

Mechanical

Mechanical Size 54.2 mm (H) x 33.2 mm (Dia)

Available Connectors SMA Male

Weight 18 g

Enclosure Radome and Base: EXL9330

HC600 Dimensions (mm)

