

HC600E



When precision matters.®

HC600E Embedded Iridium Antenna

Frequency Coverage: Iridium

Overview

The HC600E 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 5 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).

Tallysman offers custom tuning services to optimize the performance of the HC600E for any OEM installation environment.



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
- Operates from -40°C to $+85^{\circ}\text{C}$

Benefits

- Extremely lightweight (5 g)
- Excellent circular polarized signal reception
- Industrial temperature range
- 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		-	-

Mechanical

Mechanical Size 38.7 mm (H) x 20 mm (Dia)

Available Connectors MCX, U.FL, or H.FL.

Weight 5 g

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

HC600E - Passive Iridium Helical Antenna

Part Number: 33-HC600E-xx-yyyy

Where xx= connector type

Where yyyy = cable length in mm

Low Noise Amplifier (LNA) (Measured a Vcc = 3V, Temperature=25°C)

Frequency Bandwidth ... 1616-1626.5 MHz

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

ESD Circuit Protection ... 15 kV air discharge

HC600E Dimensions (mm)

