

HX-CUX613A Multi-Function External Antenna



The HX-CUX613A is a multi-band external antenna, with additional compatibility for 2.4G Bluetooth. It is designed for applications in surveying, mapping, and navigation dispatch. It is particularly well-suited for lightweight scanner operations.

Low Profile for Easy Integration

With compact dimensions of $\Phi 43.6 \times H40.8\text{mm}$, the antenna's low-profile form factor facilitates seamless system integration. Its lightweight construction minimizes payload weight, effectively extending the operating duration of the scanner.

Stable Phase Center

The antenna utilizes a multi-feed design to ensure the phase center coincides with the geometric center, minimizing the antenna's impact on measurement errors.

Key Features

- Low profile for easy integration
- Stable phase center with high gain at low elevation angles
- Supports L5 + L-Band
- Wide bandwidth enabling simultaneous multi-system operation
- Bluetooth compatible

Wideband Multi-Frequency Operation

The antenna provides wide bandwidth coverage across satellite frequency bands. It also features an integrated Bluetooth antenna, facilitating seamless system integration.

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Performance Specifications

Antenna Characteristics

Frequency Range BT2.4G

Impedance 50Ω

Polarization RHCP

Axial Ratio ≤3.0dB

Horizontal Coverage 360°

Output VSWR ≤2

Peak Gain (Zenith) 2.5dBi

Environmental Specifications

Operating Temperature 40°C ~ +70°C

Storage Temperature -40°C ~ +70°C

Humidity 95% non-condensing

LNA Specifications

Gain 33±2dB

Noise Figure ≤2dB

Output VSWR ≤2.0

Operating Voltage ~5VDC

Operating Current ≤55mA

Gain Flatness ±2dB

Mechanical Specifications

Dimensions φ43.6*40.8mm

Weight < 50g

Connector IPEX I

Mounting 3 × No. 3-48UNC Screw Mount

Harxon
北斗星通旗下企业

Harxon Corporation
Room 501, Han's Laser Technology Centre, Shennan Ave No.9988,
Nanshan District, Shenzhen, Guangdong Province, China