D-Helix™ Antenna HX-CH6601A
Harxon Patented D-QHA™ Technology Inside

SMALL AND LIGHT ANTENNA WITH INNOVATIVE D-QHA TECHNOLOGY FOR UAV

ADVANCED D-QHA TECHNOLOGY
Harxon’s D-QHA technology ensures HX-CH6601A more stable performance of wide-angle circular polarization (WACP), and smaller antenna phase center deviation (PCV), which ensures a more precise positioning accuracy.

TRACKING IN CHALLENGING ENVIRONMENTS
HX-CH6601A is able to track visible satellites under challenging conditions, providing the positioning solutions with high precision and reliable data. Its stable phase center guarantees the accuracy of positioning within millimeter level, that can be widely used in plant protection, tree lines, also for UAV power patrol, GIS surveying where high precision operations are needed.

STRONG ANTI-INTERFERENCE PERFORMANCE
The antenna LNA features excellent out-of-band rejection performance, which can suppress the electromagnetic interference, providing the stability and reliability of GNSS signals. Also it effectively avoids disconnection dangerous when UAVs are operated under tower and electric power patrol.

SMALL SIZE AND LIGHT WEIGHT
The light weight and small size HX-CH6601A antenna can lighten the loads of UAVs, as well as a standard SMA male connector for easy integration. Its IP67 ruggedized design can protect it from dust and water.

KEY FEATURES
- Support GPS, Glonass, Galileo, Beidou, QZSS and SBAS signal reception
- Stable phase center guarantees the accuracy of positioning within millimeter level
- Strong anti-interference ability to endure the harsh operating environments
- 25g light weight for lower power consumption
- IP67 ruggedized protection
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### PERFORMANCE

**Signal Received**

- GPS: L1/L2
- GLONASS: L1/L2
- GALILEO: E1
- BDS: B1/B2
- QZSS: L1/L2
- SBAS: L1

**Gain at Zenith (90°)**

- 1217-1257MHz: 2dBi (maximum)
- 1559-1610MHz: 2.5dBi (maximum)

**Nominal Impedance**

- 50Ω

**Polarization**

- RHCP

**Axial Ratio**

- ≤3dB

**LNA Gain**

- 33dB (typical)

**Noise Figure**

- ≤1.5dB

**Output/Input VSWR**

- ≤2.0

**Operation Voltage**

- +3.3 to +12VDC

**Operation Current**

- 55mA (maximum)

**Group Delay Ripple**

- <15ns

### MECHANICAL

**Dimensions**

- Ø27.5*59mm

**Connector**

- SMA male

**Weight**

- ≤25g

**Mounting**

- Customers design own installation

### ENVIRONMENTAL

**Temperature**

- Operating: -40°C to +70°C
- Storage: -40°C to +70°C

**Humidity**

- 95% non-condensing

**Water/Dust Resistance**

- IP67

**Regulatory Compliance**

- CE, RoHS, REACH

For the most recent details of this product:


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**Structure & Phase Center Drawing (mm)**

1. D-QHA: Dual Quadrifilar Helix Antenna
2. Outside the bottom seal ring

Undeclared tolerance: ±0.3mm

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Advanced Technology to Empower Your Applications