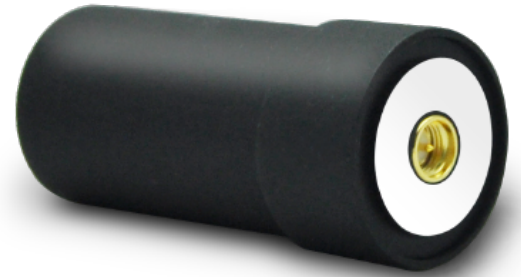


D-Helix™ Antenna HX-CH3602A

Harxon Patented QHA[®] Technology Inside

Harxon
a *BDStar* company

SMALL AND LIGHT ANTENNA
WITH QHA TECHNOLOGY FOR
UAV



HARXON QHA TECHNOLOGY

Harxon's QHA technology ensures HX-CH3602A stable performance of wide-angle circular polarization (WACP), and small antenna phase center deviation (PCV), which ensures a precise positioning accuracy.

TRACKING IN CHALLENGING ENVIRONMENTS

HX-CH3602A is able to track visible satellites under challenging conditions, providing the positioning solutions with precision and reliable data. It 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 electro magnetic 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-CH3602A 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 BeiDou 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
- IP65 ruggedize protection

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PERFORMANCE

Signal Received

GPS	L1
GLONASS	L1
BDS	B1

Nominal Impedance 50Ω

Polarization RHCP

Axial Ratio ≤3dB

Gain at Zenith (90°)

1559-1610MHz 2.5dBi(maximum)

LNA Gain 33dB(typical)

Noise Figure ≤1.5dB

Output/Input VSWR ≤2.0

Operation Voltage +3.3 to +12VDC

Operation Current 35mA(maximum)

Phase Center Deviation(PCV) ±3mm

Group Delay Ripple <15ns

MECHANICAL

Dimensions φ27.5*59mm

Connector SMA male

Weight ≤25g

Mounting customers design own installation

ENVIRONMENTAL

Temperature

Operating -40C to +70C

Storage -40C to +70C

Humidity 95% non-condensing

Water/Dust Resistance IP65^②

1. QHA: quadrifilar helix antenna
2. Outside the bottom seal ring

For the most recent details of this product:

<http://en.harxon.com/products-detail.php?Prolid=116>

en.harxon.com

sales@harxon.com

6/F, Block B, Building D3, TCL International

E City, NO.1001 Zhongshanyuan Road,

Nanshan District, Shenzhen, China

Tel: +86-755-26989948

Fax: +86-755-26989994

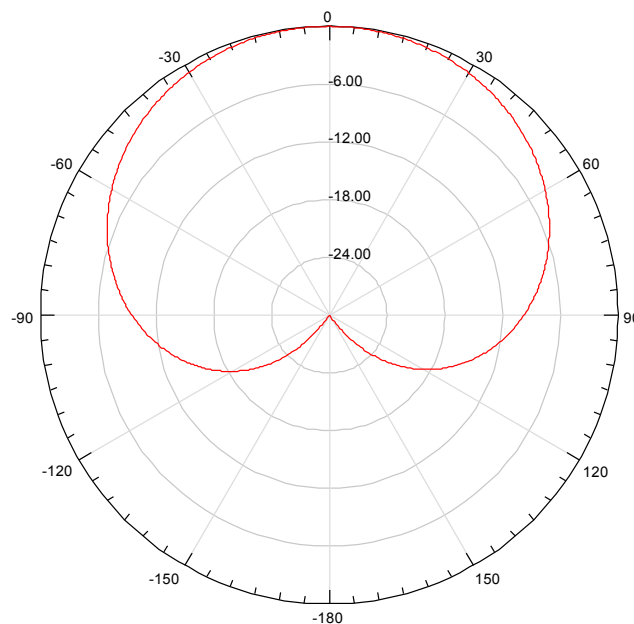
Version 1 Specifications subject to change without notice.

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NORMALIZED RADIATION PATTERN



1559MHz~1610MHz