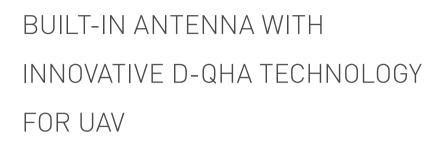
D-Helix[™] Antenna HX-CH6017A Harxon Patented D-QHA^① Technology Inside



ADVANCED D-QHA TECHNOLOGY

Harxon's D-QHA technology ensures HX-CH6017A 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-CH6017A 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 danger when UAVs are operated under tower and electric power patrol.

SMALL SIZE AND LIGHT WEIGHT

The 7-gram light weight and small size HX-CH6017A antenna can largely lighten the loads of UAVs. The embedded RTK antenna design reduces the entire weight of UAV and consequently improves the performance, such as waterproof, shock impact and installation.



Harxon

a **BDStar** company

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
- 7g light weight for lower power consumption
- Built-in RTK antenna to improve UAV performance
- Can be customized

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PERFORMANCE

Signal Received	
GPS	L1/L2
GLONASS	L1/L2
GALILEO	E1
BDS	B1, B2
QZSS	L1/L2
SBAS	L1
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≤3dB
Gain at Zenith (90°)	
1217-1257MHz	2dBi(maximum)
1559-1610MHz	2.5dBi(maximum)
LNA Gain	33dB(typical)
Noise Figure	≤1.5dB
Output/Input VSWR	≤2.0

Operation V	oltage	+3.3 to + 12VDC
Operation C	urrent	55mA(maximum)
Group Delay	Ripple	<15ns
MECHAN	ICAL	
Dimensions		¢23.8*46.8mm
Connector		IPEX
Weight		≼7g
Mounting	customers design own installation	

ENVIRONMENTAL

1.D-QHA: Dual Quadrifilar Helix Antenna

Temperature	
Operating	-40℃ to +70℃
Storage	-40°C to +70°C
Humidity	95% non-condensing

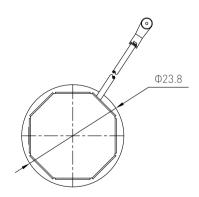
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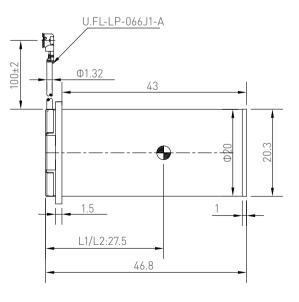
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Structure& Phase Center Drawing (mm)





TOP VIEW

SIDE VIEW

Undeclared tolerance:±0.3mm