Aviation Antenna HX-CAX601A



HIGH PRECISION COMPACT GNSS ANTENNA FOR AVIATION



HIGH PHASE CENTER STABILITY

HX-CAX601A features a multi-point feeding deign to achieve greater phase center stability. It effectively improves measurement accuracy and provides better positioning solution.

TRACKING IN CHALLENGING ENVIRONMENTS

The ability to receive low elevation signals with high gain and wide beam width makes HX-CAX-601A a suitable choice for tracking visible satellites and provide stable and precision GNSS data under different flight attitudes.

STRONG ANTI-INTERFERENCE PERFORMANCE

The antenna LNA features an 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 receivers are being interfered by wireless communication systems, for example power grid, communication base station or radio modern applications.

SMALL SIZE WITH RUGGEDIZED STRUCTURE

The dimension of HX-CAX601A is only 90*27.5mm (without connector) with a light weight of 13 gram, which makes it ideal to be placed over the professional drones, unmanned vessels or where high precision operations are needed. The IP67 ruggedized cover can protect the antenna from dust and water, furthermore ensure long-time outdoor operation due to its patented water-proof and breathable design.

KEY FEATURES

- Support GPS, GLONASS, Beidou and Galileo signals reception
- Stable phase center guarantees the accuracy of positioning within millimeter-level
- Strong anti-interference ability to endure the challenging operating environments
- Small form factor with IP67 ruggedized structure

Aviation Antenna HX-CAX601A



PERFORMANCE

Gain at Zenith (90°)

Signal Received GPS L1/L2/L5 **GLONASS** L1/L2/L3 BDS B1/B2/B3 **GALILEO** E1/E5a/E5b/E6 L-Band

Nominal Impedance 50Ω RHCP **Polarization Axial Ratio** ≼3dB

3dBi(maximum) 1164-1278MHz 1520-1615MHz 3dBi(maximum)

LNA Gain 36dB(typical) **Noise Figure** ≤1.5dB

Output/Input VSWR ≤2.0 Operation Voltage +3.3VDC to +12VDC

Operation Current 45mA(maximum)

Group Delay Ripple <5ns

MECHANICAL

¢90*27.5mm **Dimensions**

Connector TNC female (selectable SMA female)

Weight ≤150g

Mounting 4 M4 screws installation

ENVIRONMENTAL

Temperature

-40°C to +85°C Operating -55℃ to +85℃ Storage

Humidity 95% non-condensing

Water/Dust Resistance IP67

For the most recent details of this product: http://en.harxon.com/products-detail.php?ProId=151

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 2 Specifications subject to change without notice. ©2018 Harxon Corporation, All rights reserved. Printed in China July 2018

Harxon Aviation Antennas:

	GPS			GLONASS			GALILEO				BDS			- L-Band -	Structures
Model	L1	L2	L5	L1	L2	L3	E1	E5a	E5b	E6	B1	B2	В3	L-bariu	
HX-CAX601A	✓	¢90*27.5mm													
HX-CA7606A HX-CA7607A	✓	✓	_	✓	✓	_			_	_	✓	✓	✓	_	115.72.27
HX-CA3603A	✓	_	_	✓	_	_	_		_	_	✓	_	_	_	115x72x27mm

NORMALIZED RADIATION PATTERN



