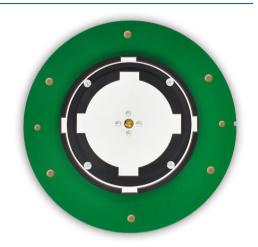
HX-CSX048A Embedded GNSS Antenna



HX-CSX048A Embedded Full Frequency GNSS Antenna with L-Band

The Harxon HX-CSX048A is a precision tuned, stacked patch GNSS antenna that provides reliable and consistent positioning services across the full bandwidth of the antenna. Its superior positioning accuracy and powerful system compatibility makes it ideal to be integrated into various surveying and RTK applications.



CONSISTENT PERFORMANCE ACROSS FULL FREQUENCY BANDS

The Harxon HX-CSX048A offers full support for superior satellite signals tracking, including GPS, GLONASS, Galileo and BeiDou, QZSS, IRNSS, SBAS as well as L-Band correction services. It offers a very stable phase center variation with advanced multipoint feeding technology, exceptional low elevation satellite tracking with symmetric radiation patterns, high gain with ultralow signal loss, as well as outstanding wide-angle circular polarization (WACP) ensures excellent positioning accuracy.

GREAT MULTIPATH REJECTION AND POWERFUL ANTI-INERFERENCE CAPABILITY

The HX-CSX048A antenna equips an anti-multipath intercepter and provides superior multi-path signal rejection. Besides, the pre-filtered LNA of the antenna restraints unwanted electromagnetic interferences and significantly avoids signal loss while around challenging environments as power grid, communication base station and broadcasting stations.

EASY INTEGRATION DESIGN FOR VARIOUS APPLICATIONS

The unique structure design of HX-CSX048A simplifies the RTK integration, and minimizes the overall device dimension, optimizing system integrators positioning efficiency and performance in various surveying and RTK applications.

KEY FEATURES

- Comprehensive GNSS support: GPS, GLONASS, Galileo, BeiDou and QZSS, IRNSS, SBAS as well as L-Band correction services
- · Centimeter phase center repeatability
- Improved signal filtering and excellent multipath rejection
- Superior electromagnetic compatibility for easy integration

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PERFORMANCE

Signal Received	
GPS	L1/L2/L5
GLONASS	L1/L2/L3
GALILEO	E1/E5a/E5b/E6
BDS	B1/B2/B3
QZSS	L1/L2/L5/L6
IRNSS	L5
SBAS	L1/L5
L-Band	
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≼3dB
Azimuth Coverage	360°(omni-directional)
Output VSWR	≤2.0
Peak Gain	5.5dBi

LOW NOISE AMPLIFIER

LNA Gain	40±2dB
Noise Figure	≤2dB
Output VSWR	≤2.0
Passband Ripple	±2dB
Operation Voltage	+3.3 to +12VDC
Operation Current	≤45mA
Differential Propagation Delay	≤5ns

MECHANICAL

Dimensions	¢152x25mm
Connector	MCX-C-JW1.5
Weight	<220g

ENVIRONMENTAL

Operating	-40°C to +85°C
Storage	-55℃ to +85℃
Humidity	95% No-condensing

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Temperature

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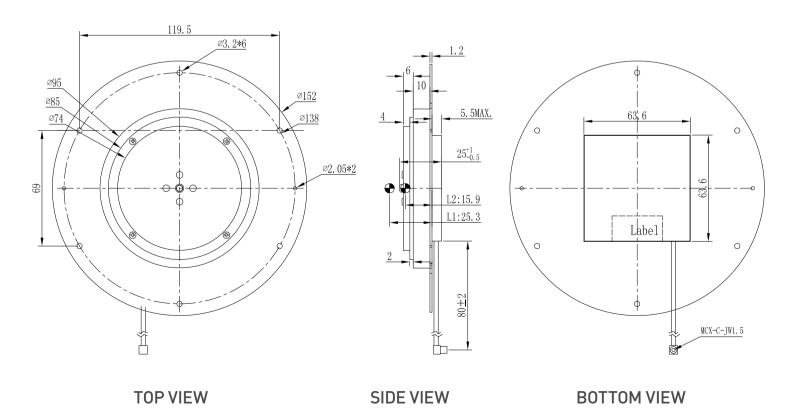
Version 1 Specifications subject to change without notice.

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Structure & Phase Center Drawing (mm)



Undeclared Tolerance:±0.3mm