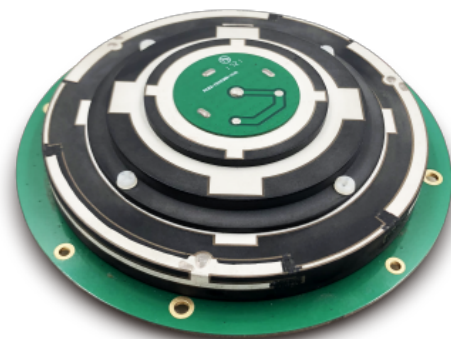


X-Survey™ Antenna HX-CSX100A



INNOVATIVE 4in1 MULTIFUNCTION ANTENNA TO RTK APPLICATIONS



4IN1 NAVIGATION PLUS COMMUNICATION ANTENNA

X-Survey™ is the unique 4in1 OEM antenna for both navigation and communication in the surveying applications. It provides standard Wi-Fi, Bluetooth, 4G[®], and multiple constellation signals reception for GNSS positioning.

HIGH PHASE CENTER STABILITY

The high gain and wide beam width GNSS antenna features a multi-point feeding technology, ensuring a high phase center stability and positioning accuracy. Moreover, the array-arranged 4G antennas provides more stable signals and longer communication distance at different directions.

POWERFUL SYSTEM COMPATIBILITY BUT PREVENT INTERFERENCE

X-Survey™ antenna provides high isolation among each antenna to prevent self-interference, hence improves the RTK system compatibility. RF coaxial connectors are designed for plug-and-use, keeping a high efficiency and lowering the impact of EMI. The antenna LNA features an excellent out-of-band rejection performance, which can also suppress the EMI, providing reliable GNSS signals.

EASY INTEGRATION DESIGN FOR PRECISION APPLICATIONS

The unique structure design simplifies the RTK integration, and minimizes the overall machine dimension, aiming to bring system integrators high efficiency performance of navigation and communication in surveying and precision agriculture applications.

KEY FEATURES

- Supports GPS, GLONASS, BeiDou, Galileo signals reception
- Supports 4G, Wi-Fi, Bluetooth
- Stable phase center guarantees the accuracy of positioning within centimeter-level
- Powerful system compatibility, easy for machine integration

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Harxon
a *BDStar* company

PERFORMANCE

Signal Received

GPS	L1, L2, L5
GLONASS	L1, L2, L3
BDS	B1, B2, B3
GALILEO	E1, E5a, E5b, E6
L-Band	
Bluetooth	
Wi-Fi	
4G	

Nominal Impedance 50Ω

Polarization RHCP

Axial Ratio ≤2dB

Peak Gain

1164-1300MHz	5.5dBi(maximum)
1520-1615MHz	5.5dBi(maximum)
Bluetooth/Wi-Fi	1.5dBi(maximum)
4G	1.5dBi(maximum)

LNA Gain 40dB(typical)

Noise Figure ≤1.6dB

VSWR ≤2.0

Operation Voltage 3.3V to 12V DC

Operation Current 45mA(maximum)

Group Delay Ripple <5ns

MECHANICAL

Dimensions 130* x 22.3mm^②

Connector SMP female (customized)

Weight ≤230g

Mounting 6 M3 screws installation

ENVIRONMENTAL

Temperature

Operating -40°C to +85°C

Storage -55°C to +85°C

Humidity 95% non-condensing

For the most recent details of this product:

<http://en.harxon.com/products-detail.php?Prolid=172>

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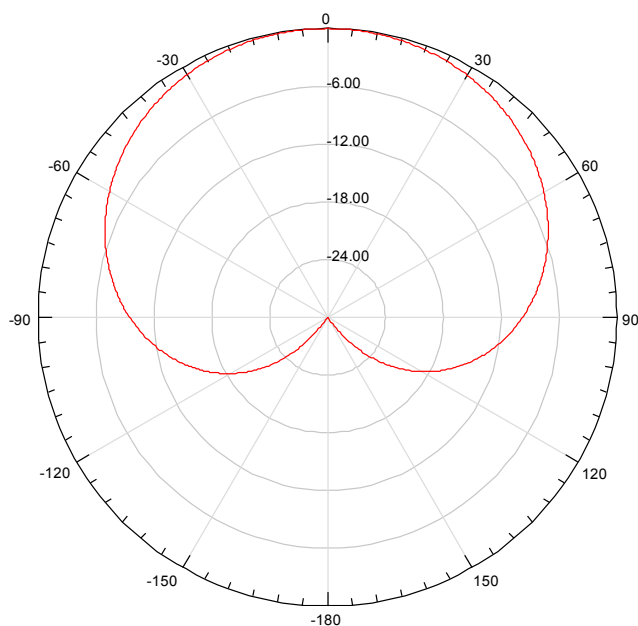
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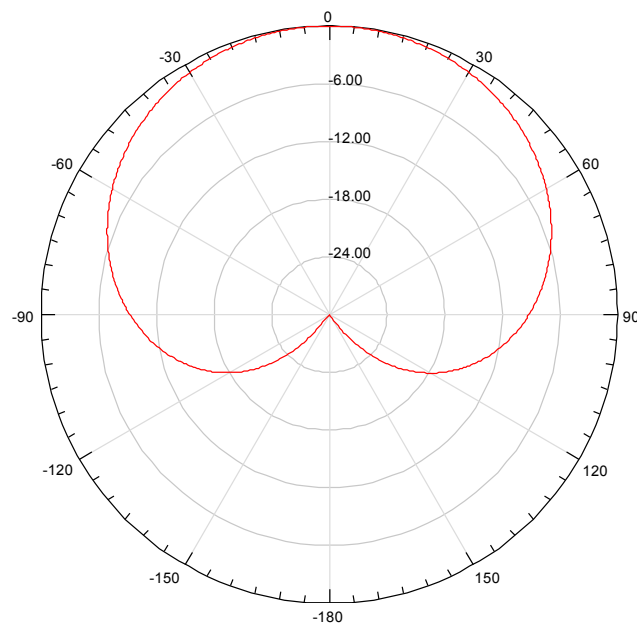
①.4G bands: can be customized according
to different countries and regions

②.Dimension: typical value, without
connector, can be customized

NORMALIZED RADIATION PATTERN



1520MHz~1615MHz



1164MHz~1300MHz