

Survey GNSS Antenna HX-CSX627A

Harxon
a *BDStar* company

HIGH PERFORMANCE ANTENNA FOR GIS SURVEYING



HIGH PHASE CENTER STABILITY

HX-CSX627A features a multi-point feeding design to achieve greater phase center stability. It effectively improves measurement accuracy and provides better positioning solutions.

TRACKING IN CHALLENGING ENVIRONMENTS

The ability to receive low elevation signals with high gain and wide beam width makes HX-CSX627A an excellent choice for tracking visible satellites under challenging conditions, providing the positioning solutions with precision and reliable data. It can be widely used in GNSS surveying applications where high precision is needed, such as obstructed environment of tree lines or construction.

STRONG ANTI-INTERFERENCE PERFORMANCE

The antenna LNA features an 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 dangerous when receivers are operated under complex electro magnetic environments such as communication base station applications or urban area.

DURABLE, EASY-INSTALLATION DESIGN

Its compact and lightweight design, making HX-CSX627A highly portable and suitable for outdoor operating in precision applications. The patented waterproof and breathable design, durable enclosure has been proven to sustain the harsh conditions by meeting IP67, easily protecting HX-CSX627A from dust and water for quite a long time.

KEY FEATURES

- Support GPS, Glonass, Galileo, Beidou, QZSS, IRNSS and SBAS signal reception
- Stable phase center guarantees the accuracy of positioning within millimeter-level
- Strong anti-interference ability to endure the harshest operating environments
- IP67 ruggedized protection

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PERFORMANCE

Signal Received	
GPS	L1/L2/L5/L-band
GLONASS	L1/L2/L3
GALILEO	E1/E5a/E5b/E6
BDS	B1/B2/B3
QZSS	L1/L2/L5/L6
SBAS	L1/L5
IRNSS	L5
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≤3dB
Azimuth Coverage	360°
Output VSWR	≤2.0
Peak Gain	5.5dBi
Deviation of Phase Center	±2mm

LNA

LNA Gain	L1: 38±2dB L2: 40±2dB
Noise Figure	≤2dB
Output/Input VSWR	≤2.0
Passband Ripple	±2dB
Operation Voltage	+3.3 to +12VDC
Operation Current	≤45mA
Group Delay Ripple	≤5ns

MECHANICAL

Dimensions	φ152*62.2mm
Connector	TNC female
Weight	≤400g
Mounting	BSW5/8"-11 screw, 12-14mm

ENVIRONMENTAL

Temperature	
Operating	-40°C to +85°C
Storage	-55°C to +85°C
Humidity	95% non-condensing

en.harxon.com

sales@harxon.com

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

E City, NO.1001 Zhongshanyuan Road,

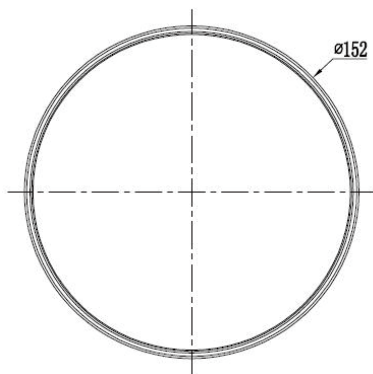
Nanshan District, Shenzhen, China

Tel: +86-755-26989948

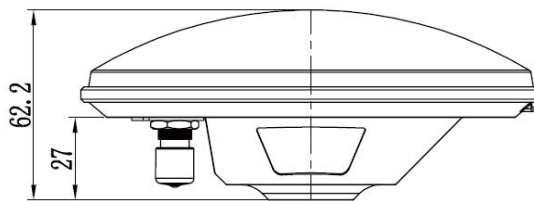
Fax: +86-755-26989994

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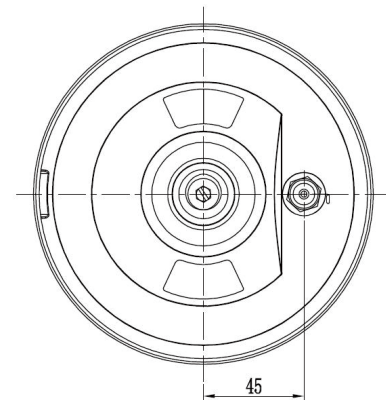
Structure& Phase Center Drawing (mm)



TOP VIEW



SIDE VIEW



BOTTOM VIEW

Undeclared tolerance:±0.3mm