

# GNSS Survey Antenna HX-CSX627A



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 FOR PRECISION APPLICATIONS

Its compact and lightweight design, making HX-CS762A 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 challenging operating environments

# GNSS Survey Antenna HX-CSX627A

## PERFORMANCE

Antenna Feature	
Signal Received	GPS L1/L2/L5 GLONASS L1/L2/L3 GALILEO E1/E5a/E5b/E6 BDS B1I/B2I/B3I/B1C/B2a/B2b QZSS L1/L2/L5/L6 IRNSS L5 L-Band
Nominal Impedance	50Ω
Polarization	RHCP
Axial Ratio	≤3dB
Output/Input VSWR	≤2.0
Gain at Zenith (90°)	1164-1300MHz 5.5dBi(maximum) 1520-1615MHz 5.5dBi(maximum)
Phase center error	±2mm
LNA Feature	
LNA Gain	40±2dB

Noise Figure	≤2dB
Output/Input VSWR	≤2.0
Operation Voltage	+3.3 ~ +12VDC
Operation Current	≤45mA
Group Delay Ripple	≤5ns

## MECHANICAL

Dimensions	Φ152*62.2mm
Weight	≤500g
Connector	TNC female
Mounting	BSW5/8"-11 screw, 12-14mm

## ENVIRONMENTAL

Operating Temperature	-40°C ~ +70°C
Storage Temperature	-55°C ~ +70°C
Humidity	95% non-condensing

## Structure& Phase Center Drawing (mm)

