# Survey GNSS Antenna HX-CS3607A

Harxon
a BDStar company

## HIGH PRECISION GNSS ANTENNA FOR SURVEYING APPLICATIONS



### HIGH PHASE CENTER STABILITY

HX-CS3607A features a multi-point feeding deign 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-CS3607A 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 electromagnetic environments such as communication base station applications or urban area.

### DURABLE, EASY-INSTALLATION DESIGN FOR PRECISION APPLICATIONS

Its compact and lightweight design, making HX-CS3607A 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-CS3607A from dust and water for quite a long time.

### KEY FEATURES

- Support GPS, Glonass, Galileo, Beidou, QZSS 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
- Small form factor with IP67 ruggedized structure

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## PERFORMANCE

| | |
|---|---|
| **Signal Received** | |
| GPS | L1 |
| GLONASS | L1 |
| GALILEO | E1 |
| BDS | B1 |
| QZSS | L1 |
| SBAS | L1 |
| **Nominal Impedance** | 50Ω |
| **Polarization** | RHCP |
| **Axial Ratio** | ≤3dB |
| **Gain at Zenith (90°)** | |
| 1164-1300MHz | 5.5dBi(maximum) |
| 1520-1615MHz | 5.5dBi(maximum) |
| **LNA Gain** | 40dB(typical) |
| **Noise Figure** | ≤2dB |
| **Output/Input VSWR** | ≤2.0 |
| **Operation Voltage** | +3.3VDC to +12VDC |
| **Operation Current** | 35mA(maximum) |
| **Group Delay Ripple** | <5ns |

## MECHANICAL

| | |
|---|---|
| **Dimensions** | ¢152*62.2mm |
| **Connector** | TNC female |
| **Weight** | ≤400g |
| **Mounting** | BSW5/8''-11 screw, 12-14mm |

## ENVIRONMENTAL

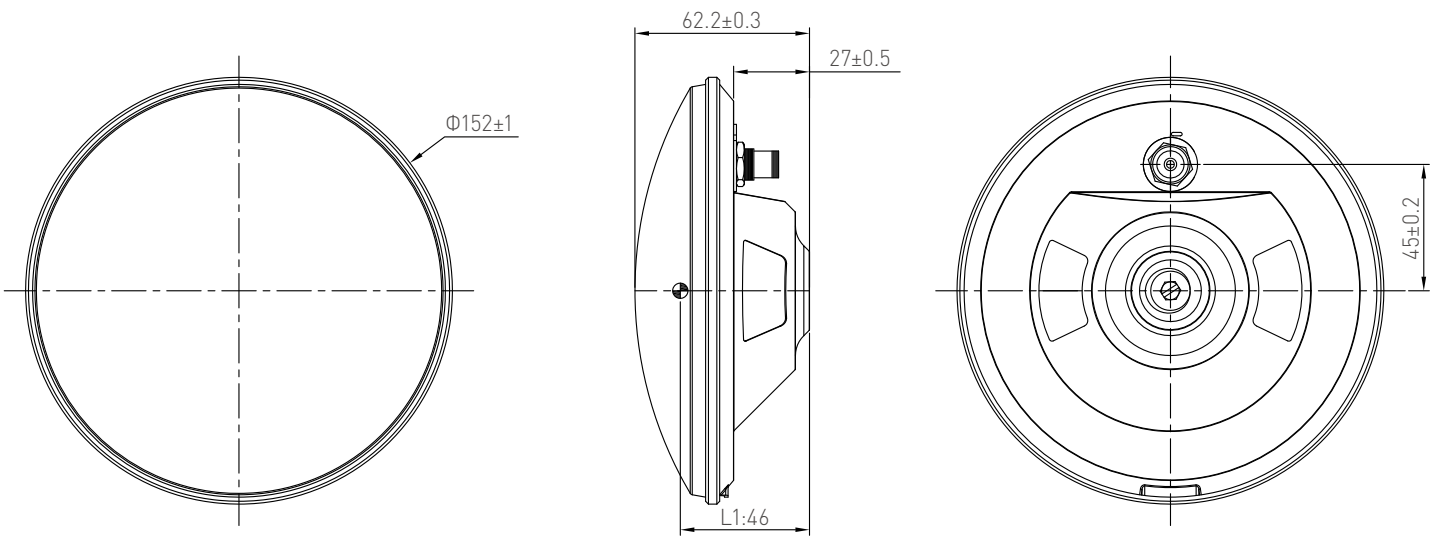
| | |
|---|---|
| **Temperature** | |
| Operating | -40℃ to +85℃ |
| Storage | -55℃ to +85℃ |
| **Humidity** | 95% non-condensing |
| **Water/Dust Resistance** | IP67 |
| **Regulatory Compliance** | CE |

For the most recent details of this product:
http://en.harxon.com/products-detail.php?ProId=48

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**Version 2** Specifications subject to change without notice.
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## Structure& Phase Center Drawing (mm)




TOP VIEW SIDE VIEW BOTTOM VIEW

Undeclared tolerance:±0.3mm

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