

# AX4E06M



## Mini 3D Choke Ring Antenna

### Overview

The AX4E06M is a ruggedized and durable mini 3D choke ring antenna for base station that covers full frequency satellite signal tracking of GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, SBAS as well as L-Band correction service. It is a high performance GNSS antenna with strong multipath suppression performance that specifically designed for applications as land and marine surveying, channel surveying, earthquake and landslide monitoring, deformation monitoring, and wharf container operations that require absolute positioning accuracy and multi-constellation support.

The AX4E06M adopts unique choke ring structure design which delivers extraordinary multipath suppression performance for stable satellite signal tracking. The stability of this antenna reaches submillimeter, ideal for mission-critical applications. The low noise amplifier (LNA) provides the stability and reliability of GNSS signals for superior measurement quality with excellent out of band rejection.

### Key features

Supports GPS L1/L2/L5, GLONASS L1/L2/L3, BeiDou B1/B2/B3, Galileo E1/E5a/E5b/E6, QZSS L1/L2/L5/L6, IRNSS L5, SBAS L1/L5, L-Band

High gain with extraordinary low elevation signal tracking

High phase center stability ensures sub-millimeter level positioning accuracy

Strong anti-interference for challenging environment operations

Ruggedized structure, mini design, lightweight, IP67 water/dust resistance



# Technical Specifications

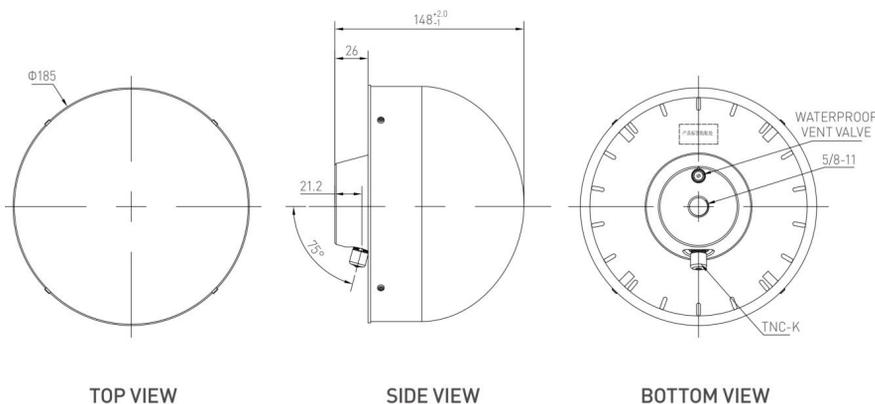
## Performance

Signal Tracking:	
GPS L1/L2/L5, GLONASS L1/L2/L3, BeiDou B1/B2/B3, Galileo E1/E5a/E5b/E6, QZSS L1/L2/L5/L6, IRNSS L5, SBAS L1/L5, L-Band	
Impedance:	50Ω
Polarization:	RHCP
Axial Ratio:	≤3dB
Azimuth Coverage:	360°(Omni-directional)
Output VSWR:	≤2.0
Peak Gain:	6.5dBi
Phase Center Repeatability:	±1mm

## Environmental

Operating Temperature:	-40°C ~ +85°C
Storage Temperature:	-55°C ~ +85°C
Humidity:	95% not condensing
Dustproof & waterproof:	IP67

## Structure Overview



Undeclared Tolerance:±0.3mm

## LNA

LNA Gain:	50±2dB
Noise Figure:	≤2dB
Output VSWR:	≤2.0
Passband Ripple:	±2dB
Operation Voltage:	+3.3V~+12V DC
Operation Current:	≤60mA
Differential Propagation Delay:	≤5ns

## Mechanical

Size:	φ 185*148mm
Connector:	TNC Female
Weight:	≤ 2.5Kg
Mounting:	5/8"×11 Screws

