

Tersus GNSS

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 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 multiple constellations and frequencies
 - 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, light weight, IP67 water/dust resistance

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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)
Peak Gain:	6.5dBi
Phase Center Repeatability:	±1mm

LNA

LNA Gain:	50±2dB (Typical)
Noise Figure:	≤2dB
Output VSWR:	≤2.0
Operation Voltage:	+3.3V~+12V DC
Operation Current:	≤ 60mA
Group Delay Ripple:	< 5ns

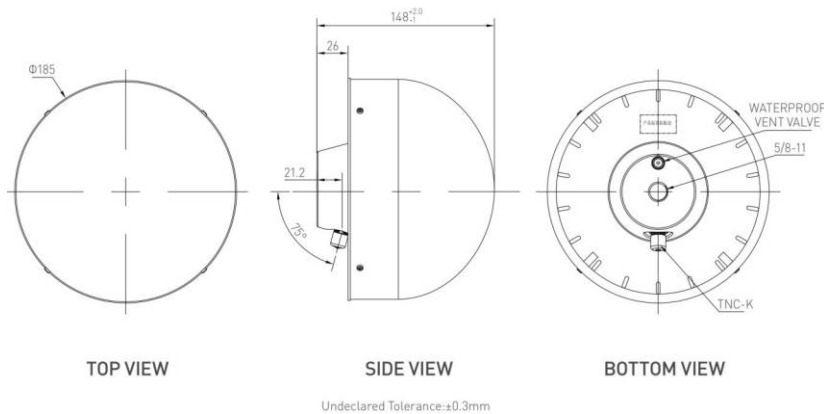
Environmental

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

Mechanical

Size:	φ 185x148mm
Connector:	TNC Female
Weight:	≤2.5kg
Screw Hole for Assembly:	5/8" × 11 Screws

Structure Overview/mm



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