Tersus GNSS
AX4E07 High Performance Antenna

Overview

The AX4E07 high performance GNSS antenna is designed with rugged housing, high reliability and easy integration for applications that require ultimate accuracy. It offers full support for reliable and consistent satellite signals tracking, including GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, SBAS as well as L-Band correction service. It is ideal for unmanned vehicles, autonomous driving, mobile mapping system and solution of mobile laser scanning system for unmanned vehicles or applications where precision matters.

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, L3, L6
  - IRNSS L5
  - SBAS L1, L5
  - L-Band
- ✓ Reliable phase center, low elevation signal tracking, strong anti-interference performance
- ✓ Low profile, rugged IP67 housing idea for harsh environments
- ✓ Weight 250g only, low power consumption, autonomous vehicle mounting

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Technical Specifications

Performance

Signal Tracking:	
GPS L1, L2, L5; GLONASS L1, L2, L3; BDS B1, B2, B3; Galileo E1, E5a, E5b, E6; QZSS L1, L2, L3, L6; IRNSS L5; SBAS L1, L5; L-Band	
Nominal Impedance:	50Ω
Polarization:	RHCP
Axial Ratio:	⩽3dB
Peak Gain:	4.0dBi
Azimuth Coverage:	360°(Omni-directional)

Mechanical

Size:	ϕ 90.6x26mm
Connector:	TNC Female
Weight:	⩽250g
Mounting:	Screws Mount: M18 screws

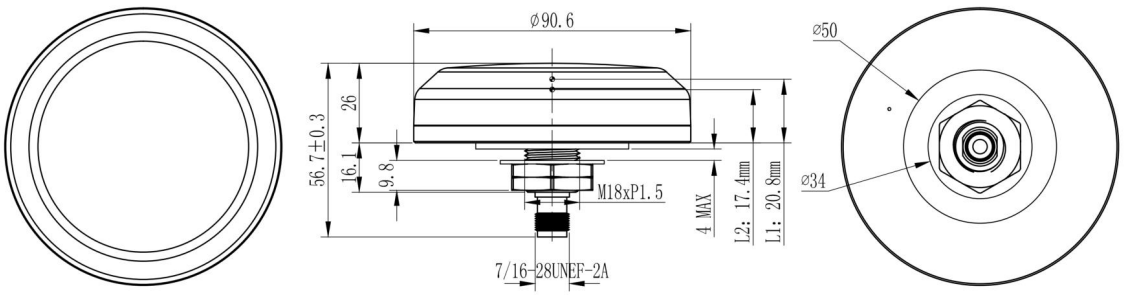
LNA

LNA Gain:	40±2dB
Noise Figure:	⩽2dB
Output VSWR:	⩽2.0
Passband Ripple:	±2dB
Operation Voltage:	3.3V~16V DC
Operation Current:	⩽ 45mA
Differential Propagation Delay :	⩽ 5ns
EMC(RF Input Static):	Connected 8KV, Air 15KV, 10times

Environmental

Operating Temperature:	-45°C～+85°C
Storage Temperature:	-55°C～+85°C
Humidity:	95% not condensing
Dust- & Waterproof:	IP67

Structure & Phase Center Drawing



TOP VIEW SIDE VIEW BOTTOM VIEW

Undeclared Tolerance: ±0.3mm

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