

Tersus GNSS

AX4E03 Aviation Antenna

Overview

The AX4E03 GNSS antenna is a high precision compact GNSS antenna for aviation, which is capable of receiving signals from GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, as well as L-Band correction service. The ability to receive low elevation signals with high gain and wide beam width makes AX4E03 a suitable choice for tracking visible satellites and provide stable and precision GNSS data under different flight attitudes.

Key Features

- ✓ 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
- ✓ 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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Technical Specifications

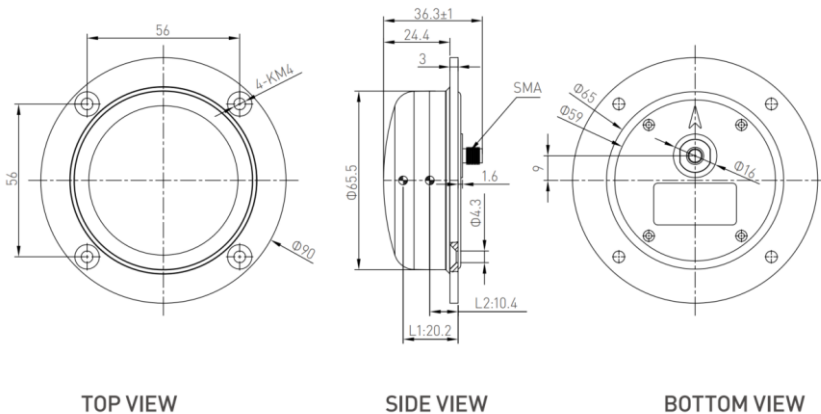
Performance

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	
Nominal Impedance:	50Ω
Polarization:	RHCP
Axial Ratio:	≤3dB
Gain at Zenith(90°):	
1164-1300MHz	3dBi(maximum)
1525-1615MHz	4dBi(maximum)

Mechanical

Size:	φ 90x27.5mm
Connector:	SMA Female
Weight:	≤150g
Mounting:	4 M4 Screws Installation

Structure Overview



Undeclared tolerance:±0.3mm

Website: www.tersus-gnss.com
Sales Inquiry: sales@tersus-gnss.com
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LNA

LNA Gain:	36dB (Typical)
Noise Figure:	≤2dB
Output/Input VSWR:	≤2.0
Operation Voltage:	3.3V~12V DC
Operation Current:	≤ 55mA
Group Delay Ripple:	< 5ns

Environmental

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