



AX4E07

High Performance Antenna for Autonomous Applications

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

Comprehensive GNSS supports: GPS L1/L2/L5, GLONASS L1/L2/L3, GALILEO E1/E5a/E5b/E6, BeiDou B1/B2/B3, QZSS L1/L2/L3/L6, SBAS L1/L5, IRNSS 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





Technical Specifications

Performance

Frequencies:	GPS	L1/L2/L5
	GLONASS	L1/L2/L3
	BeiDou	B1/B2/B3
	GALILEO	E1/E5a/E5b/E6
	QZSS	L1/L2/L3/L6
	SBAS	L1/L5
	IRNSS	L5
	L-Band	
Nominal Impedance:	50Ω	
Polarization:	RHCP	
Axial Ratio:	≤3dB	
Peak Gain:	4.0dBi	
Azimuth Coverage:	360°(Omni-directional)	

Environmental

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

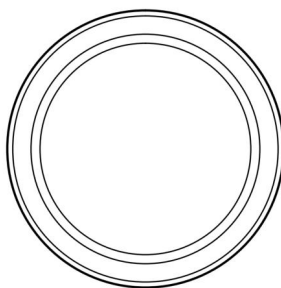
LNA

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

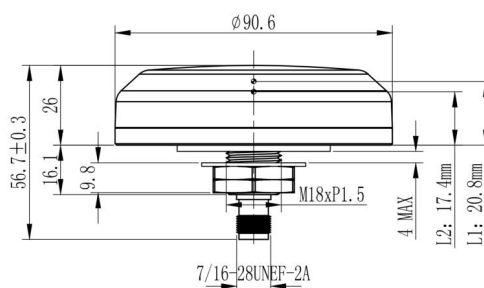
Mechanical

Size:	φ90.6x26mm
Connector:	TNC Female
Weight:	≤250g
Mounting:	Screws Mount: M18 screws
Water/Dust Resistance:	IP67

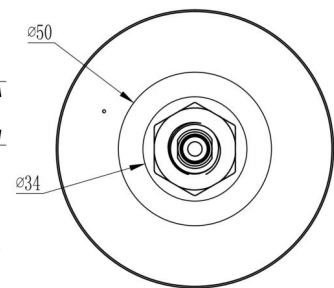
Structure & Phase Center Drawing (mm)



TOP VIEW



SIDE VIEW



BOTTOM VIEW

Undeclared Tolerance: ±0.3mm

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