

# AX4E03

## Aviation Antenna

### Overview

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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 and SBAS. 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

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

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Stable phase center guarantees the accuracy of positioning within millimeter-level

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Strong anti-interference ability to endure the challenging operating environments

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Small form factor with IP67 ruggedized structure

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# Technical Specifications

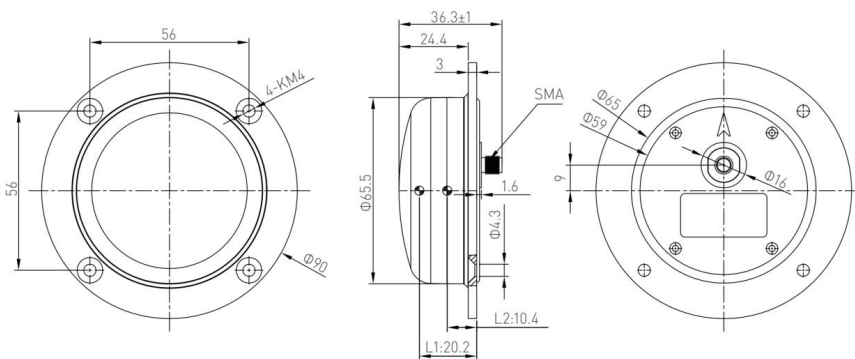
## Performance

<b>Frequencies:</b>	GPS	L1/L2/L5/L-Band
	GLONASS	L1/L2/L3
	BeiDou	B1/B2/B3
	GALILEO	E1/E5a/E5b/E6
	QZSS	L1/L2/L5/L6
	IRNSS	L5
	SBAS	L1/L5
<b>Nominal Impedance:</b>	50Ω	
<b>Polarization:</b>	RHCP	
<b>Axial Ratio:</b>	≤3dB	
<b>Gain at Zenith(90°):</b>		
1164-1300MHz	3dBi(maximum)	
1525-1615MHz	4dBi(maximum)	

## Environmental

<b>Operating Temperature:</b>	-40°C ~ +85°C
<b>Storage Temperature:</b>	-55°C ~ +85°C
<b>Humidity:</b>	95% not condensing
<b>Water/Dust Resistance:</b>	IP67

## Structure & Phase Center Drawing (mm)



TOP VIEW

SIDE VIEW

BOTTOM VIEW

Undeclared tolerance: ±0.3mm

## LNA

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

## Mechanical

<b>Size:</b>	φ90x27.5mm
<b>Connector:</b>	SMA Female
<b>Weight:</b>	≤150g
<b>Mounting:</b>	4 M4 screws installation

