

# AX3705

## Helix Antenna



### Overview

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The AX3705 is a helix antenna that supports four satellite constellations and dual frequencies, which is designed for UAV systems and mobile devices. It can be used in aerial photography, telemetry technology, disaster monitoring, traffic patrol, and security monitoring, etc.

This helix antenna has exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The antenna has a high gain and a wide beam width to ensure that satellite signals can be received at low elevation angles.

### Key Features

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Supports GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2/B3, and Galileo E1/E5b

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High stability and high repeatability at phase center

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High antenna gain having superior tracking performance at low elevation angles

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Very low noise figure

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SMA male connector

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Ground plane independent

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GIS & RTK applications

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Ultra-light weight

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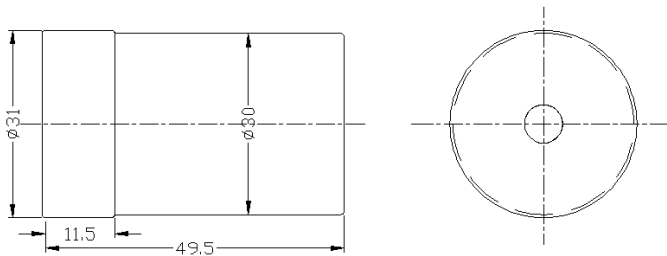


# Technical Specifications

## Performance

Frequencies:	GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2/B3, Galileo E1/E5b
Peak Gain:	>2dBi
Polarization:	RHCP
Axial Ratio:	≤2dB
Azimuth Coverage:	360°
Impedance:	50Ω
Output VSWR:	≤2.0

## Structure Overview



## LNA

LNA Gain:	32±2dB
Noise Figure:	≤1.5dB
Output VSWR:	≤2.0
Operation Voltage:	3V~16V DC
Operation Current:	≤35mA@3.3V
Ripple:	±1.5dB

## Mechanical

Size:	φ 31x50.4mm
Connector:	SMA Male
Weight:	<19g

## Environmental

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

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