



Helix Antenna

The compact-sized Helix antenna is designed with high stability and repeatability at phase center, and its high gain ensures a superior performance even at low elevation angle. Available from single frequency to triple frequencies, AT-series Helix antennas are optimal for Unmanned Aerial Vehicle, GIS, RTK and related mobile devices where need high accuracy GNSS positioning.

AT150 HELIX ANTENNA

- GPS L1, GLONASS L1, BeiDou B1 tracking
- Lightweight and low noise figure design
- Ground Plane independent
- High stability and repeatability at phase center
- IP65-level waterproof design

AT180 HELIX ANTENNA

- GPS L1, L2 and BeiDou B1, B2 / GLONASS L1, L2 tracking
- Compact size and low consumption design
- Multi-feed, wide beam design
- Ground Plane independent
- High stability and repeatability at phase center
- High gain with superior tracking performance

AT190 HELIX ANTENNA

- GPS L1, L2, GLONASS L1, L2 and BeiDou B1, B2, B3 tracking
- High gain (3.5dBi) with superior tracking performance at low elevation angle
- Compact size and low noise figure
- Ground Plane independent
- High stability and repeatability at phase center
- IP67-level waterproof design

AT-series Helix Antenna

Characteristics	AT150	AT180/AT180G	AT190
Antenna			
Antenna Type	Helix Antenna	Helix Antenna	Helix Antenna
Frequency Range	GPS: L1 GLONASS: L1 BeiDou: B1	GPS: L1, L2 BeiDou: B1, B2 (AT180) GLONASS: L1, L2 (AT180G)	GPS: L1, L2 GLONASS: L1, L2 BeiDou: B1, B2, B3
Impedance	50 Ohm	50 Ohm	50 Ohm
Polarization	RHCP	RHCP	RHCP
Axial Ratio	≤3dB	≤3dB	≤3dB
Azimuth Coverage	360°	360°	360°
Noise Figure	≤2.0	≤2.0	≤2.0
Gain at Zenith	2dBi	2dBi	3.5dBi
LNA			
LNA Gain	33±2dB	33±2dB	33±2dB
Noise Figure	≤2dB	≤2dB	≤2dB
VSWR Output	≤2.0	≤2.0	≤2.0
Operation Voltage	3.3 - 12VDC	3.3 -12VDC	3.3 -12VDC
Operation Current	≤45mA	≤55mA	≤45mA
Ripple	±2dB	±2dB	±2dB
Physical			
Dimension	Φ27.5x59mm	Φ27.5x59mm	Φ27.5x59mm
Connector	SMA male connector	SMA male connector	SMA male connector
Weight	19g	19g	25g
Environmental			
Operating Temperature	-40 C to +85 C	-40 C to +85 C	-40 C to +85 C
Storage Temperature	-55 C to +85 C	-55 C to +85 C	-55 C to +85 C
Humidity	95% No-condensing	95% No-condensing	95% No-condensing

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ComNav Technology Ltd.

Building 2, No. 618 Chengliu Middle Road,
201801 Shanghai, China

Tel : +86 21 64056796

Fax: +86 21 54309582

Email: sales@comnavtech.com

www.comnavtech.com

