



Dimension: $\Phi 27.5 \times 59\text{mm}$

Weight: < 25g

Features

GPS L1, L2, L5, GLONASS L1, L2, BeiDou B1, B2, B3 and Galileo E1, E5a, E5b 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 and dustproof design

AT190 Helix Antenna

The compact-sized AT190 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 frequency, AT-series Helix antennas are optimal for Unmanned Aerial Vehicle, GIS, RTK and related mobile devices where need high accuracy GNSS positioning.

Antenna

GPS	L1, L2, L5
GLONASS	L1, L2
Beidou	B1, B2, B3
Galileo	E1, E5a, E5b
Nominal Impedance	50 Ω
Polarization	RHCP
Axial Ratio (90°)	$\leq 3\text{dB}$

LNA

LNA Gain	$\geq 33 \pm 2\text{dB}$
Noise Figure	$\leq 2\text{dB}$
VSWR Output	≤ 2.0
Operation Voltage	3.3 - 12VDC
Operation Current	$\leq 45\text{mA}$
Passband Ripple	$\pm 2\text{dB}$
Gain at Zenith	+ 3.5dBi

Physical

Dimension	$\Phi 27.5 \times 59\text{mm}$
Connector	SMA male connector
Weight	25g

Environmental

Operating Temperature	-40 C to +85 C
Storage Temperature	-55 C to +85 C
Humidity	95% No-condensing
Water and Dust Proof	IP67
Drop	Survive from a 1.5m drop

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