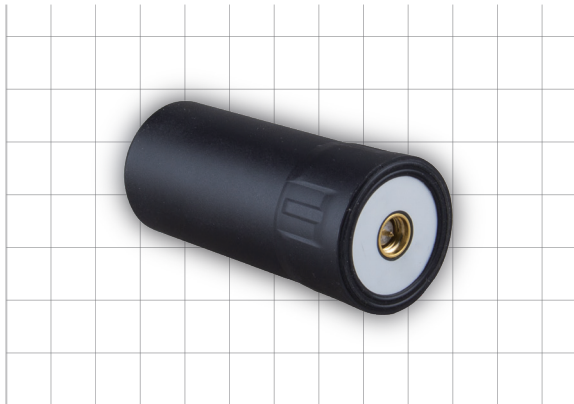


27.5mm



58 mm

Dimension: $\Phi 27.5 \times 58 \text{mm}$ **Weight:** $\leq 30 \text{g}$

Features

Support GPS L1/L2/L5, GLONASS L1/L2, BeiDou B1/B2/B3, BeiDou Global B1C/B2a, Galileo E1/E5a/E5b and SBAS

Low noise amplifier and high gain

Sub-millimeter level phase center error with outstanding stability and repeatability

Strong capability of tracking satellites at low elevation angle

Superior waterproof and dustproof design

AT160 Helix Antenna

The compact-sized AT160 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
SBAS	
Nominal Impedance	50 Ω
Polarization	RHCP
Axial Ratio (90°)	$\leq 3 \text{dB}$

LNA

LNA Gain	33 \pm 2dB
Noise Figure	$\leq 1.8 \text{dB}$
VSWR Output	≤ 1.8
Operation Voltage	3 - 12 VDC
Operation Current	$\leq 42 \text{mA}$
Gain at Zenith	3dBi

Physical

Dimension	$\Phi 27.5 \times 58 \text{mm}$
Connector	SMA male connector
Weight	$\leq 30 \text{g}$

Environmental

Operating Temperature	-40 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$
Storage Temperature	-55 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$
Humidity	95% No-condensing
Water and Dust Proof	IP67