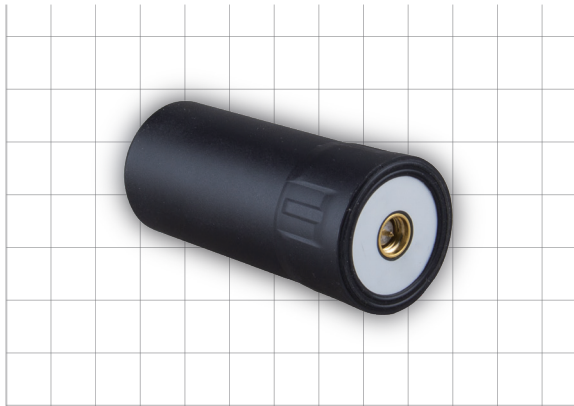


27.5mm



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 |

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