



## AT100 Geodetic Antenna

The AT100 is a single frequency GNSS Antenna tracking GPS L1, BeiDou B1 and GLONASS L1. It is widely applied in survey, GIS, deformation monitoring and related high-accuracy demanded projects.



### Features

- Multi-feed design ensures stable phase center and multipath rejection capability
- Compact size and portable design
- Water-proof and UV protection cover ensures to work in harsh environment

## AT340 Geodetic Antenna

The AT340 is super performance GNSS Antenna that can track GPS L1, L2, L5, GLONASS L1, L2 and BeiDou B1, B2, B3 Galileo E1, E5a/E5b, AltBoc, L-Band and SBAS frequency band. Its high gain and wide beam provide good signal tracking performance even when satellites at low elevation angle. It is a good choice to customers developing systems or solutions for land survey, agriculture, construction, deformation monitoring.



### Features

- Multi-feed design provides stable phase center and multipath rejection capability
- Its high gain and wide beam width provide good signal tracking performance when satellites at low elevation angle
- Water and dust-proof design ensure absolute seal of kernel parts, capable for work in harsh environment
- Lightning proof circuit inside protects the LNA from surge immunity

# AT-series Geodetic Antenna

Characteristics	AT100	AT340
<b>Antenna</b>		
Antenna Type	Geodetic	Geodetic
Frequency Range	BD B1 GPS L1 GLONASS L1	GPS: L1, L2, L5 GLONASS: L1, L2 BeiDou: B1, B2, B3 Galileo: E1, E5a/E5b, AltBoc L-Band SBAS
Impedance	50 Ohm	50 Ohm
Polarization	RHCP	RHCP
Axial Ratio	≤3dB	≤3dB
Azimuth Coverage	360°	360°
Noise Figure	≤2.0	≤2.0
Gain at Zenith	5.5dBi	5.5dBi
Phase Center Accuracy	±2mm	±2mm
<b>LNA</b>		
LNA Gain	40dB	40dB
Noise Figure	≤2dB	≤2dB
VSWR Output	≤2.0	≤2.0
Operation Voltage	3 - 18VDC	3 - 18VDC
Operation Current	≤35mA	≤45mA
Ripple	±1dB	±1dB
Group Delay	<5ns	<5ns
<b>Physical</b>		
Dimension	Φ147x61.8mm	Φ152x62.2mm
Connector	TNC Female	TNC Female
Weight	400g	374g
<b>Environmental</b>		
Operating Temperature	-40 C to +85 C	-40 C to +85 C
Storage Temperature	-55 C to +85 C	-55 C to +85 C
Humidity	95% No-condensing	95% No-condensing

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Antenna calibration information is published on both NGS and IGS website.

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