

Qianxing BDS Navigation Smart Antenna

Product Description

The Qianxing BDS Navigation Intelligent Antenna is an external measurement antenna that covers the GLONASS and BDS dual systems with seven frequencies. It is specifically designed to meet the multi-system compatibility requirements of current measurement devices. Using advanced technology, this antenna provides high-precision and high-stability measurement data in various complex environments.

It can be widely used in geodetic surveying, marine measurement, channel measurement, dredging measurement, earthquake monitoring, bridge deformation monitoring, landslide monitoring, and automatic operations at docks, providing high-precision positioning and reliable data support.

By adopting the Qianxing BDS Navigation Intelligent Antenna, users can significantly enhance the efficiency and accuracy of their measurement work, ensuring reliable data support in various application scenarios. This antenna is the ideal choice for various measurement and monitoring tasks.

Product Features

- **Dual-system seven-frequency**
Supports GLONASS+BDS signals.

- **Centimeter-level positioning accuracy**
Phase center stability, high antenna unit gain, wide directional beam pattern, high total gain front-to-back ratio, enabling rapid satellite lock and stable output of GNSS navigation signals even in complex environments.

- **Strong anti-interference performance**
The antenna LNA (Low Noise Amplifier) has excellent out-of-band suppression performance, which can suppress unnecessary electromagnetic signals, effectively reducing the risk of system loss of lock.



● **Compact size, reliable structure**

Small and compact appearance, sturdy and reliable structure, with a protection rating of up to IP67, which can protect it from the effects of dust, ultraviolet rays, and water.

Product parameters

	Project Name	Details
Antenna Characteristics	Frequency Range	GLONASS L1/L2BDS B1/B2/B3
	Impedance	50 Ohm
	Polarization Mode	Right-Hand Circular Polarization
	Antenna Axial Ratio	≤3dB
	Horizontal Coverage Angle	360°
	Output Standing Wave	≤2.0
	Maximum Gain	5.5dBi
	Phase Center Error	±2mm
Low-Noise Amplifier Specifications	Gain	40±2dB
	Noise Figure	≤2dB
	Output Standing Wave	≤2.0
	In-Band Flatness	±2dB
	Operating Voltage	+3.3 ~ +12VDC
	Operating Current	≤45mA
	Differential Transmission Delay	≤5ns
Structural Characteristics	Antenna Size	Φ152*62.2mm
	Weight	≤500g
	Connector Type	TNC Male Connector
	Installation Method	Center pole mounting, thread specification: Imperial coarse thread 5/8"-11, height 12-14mm.
Working Environment	Operating Temperature	-40°C ~ +85°C
	Storage Temperature	-55°C ~ +85°C
	Humidity	95% Non-Condensing