

Survey GNSS Antenna High Gain High Accuracy Wideband RTK Antenna

Features

- High Phase Center Stability
- Tracking Challenging environment
- Strong Anti-interference Performance
- Durable, Easy-installation, design for Precision application



Product Description

This antenna covers the four system full band external measurement antenna of GPS L1/L2/L5/L-Band, BDS B1/B2/B3, GLONASS L1/L2, GALILEO E1/E2/E5a/E5b, which meets the needs of multi-system compatible and high-precision users of current GNSS measuring equipment. It is widely used in geodesy surveying, navigation surveying, navigation, ADAS, precision agriculture and marine surveying. It can also be applied to the military field according to the application conditions.

Part No.	Weight	Dimensions	Mounting	Connector	Color
M02-0300100R0A	583g	Φ160*61.8mm	BSW5/8"-11 screw, 12-14mm	TNC Female	Yellow

PERFORMANCE

Antenna

Frequency	GPS L1/L2/L5/L-Band BDS B1/B2/B3 GLONASS L1/L2 GALILEO E1/E2/E5a/E5b
Impedance	50 Ω
Polarization	RHCP
Axial Ratio	≤3dB
Gain at Zenith (90°)	1164-1300MHz 5.5dBi (maximum) 1525-1615MHz 5.5dBi (maximum)

LNA

LNA Gain	33 ± 2dB (typical)
Noise Figure	≤2dB
Output/Input VSWR	≤2.0
Operation Voltage	+3.3VDC to +12VDC
Operation Current	60mA (maximum)
Group Delay Ripple	< 5ns

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MECHANICAL

Dimensions	Φ160*61.8mm
Connector	TNC female
Weight	≤583g
Mounting	BSW5/8"-11 screw, 12-14mm

ENVIRONMENTAL

Operating Temperature	-40℃ to +85℃
Storage Temperature	-55℃ to +85℃
Humidity	95% non-condensing
Water/Dust Resistance	IP67
Regulatory Compliance	FCC、CE、RoHS

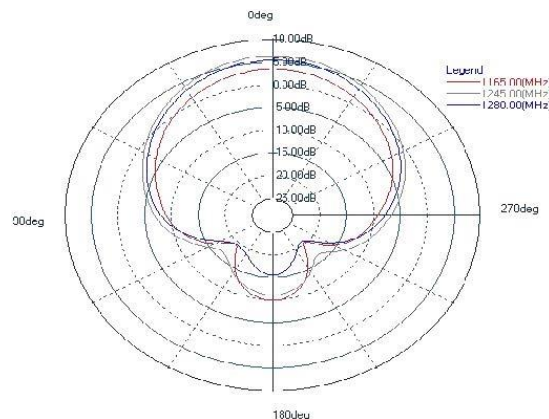
Note

- 1、 This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
- 2、 We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.
- 3、 The product will get free warranty for one year since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.
- 4、 Electrostatic sensitive device Observe precautions for handling.

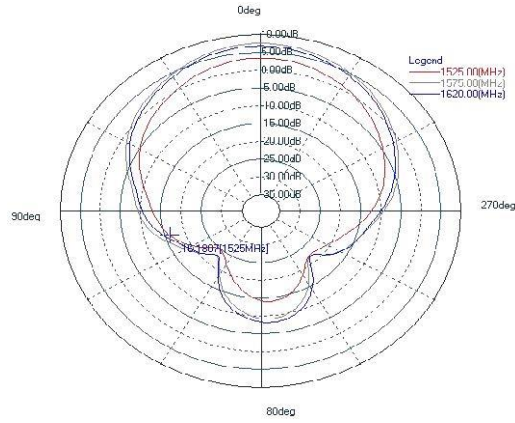
RADIATION PATTERN

GNSS Antenna Gain						
Frequency (MHz)	1165	1245	1280	1525	1575	1620
Peak Gain (dBi)	3.0	5.8	4.8	3.2	6.8	5.5

2D Radiation Pattern @L2 Band



2D Radiation Pattern @L2 Band



HOUSING CONFIGURATIONS

