GEODETIC ANTENNA MG4N03A





HIGH PRECISION GNSS ANTENNA FOR SURVEYING APPLICATIONS

Product Description

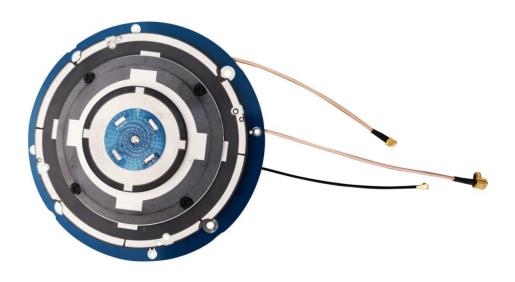
MG4N03A adopts a multi-feed point design to ensure the coincidence of the antenna phase center and the geometric center, providing measurement accuracy. Built-in low-noise amplifying module, using pre-filter and multi-stage filter to filter out interference signal, to ensure normal operation in harsh electromagnetic environment. Small size and light weight, effectively reduce the weight of the equipment.

Application Field

The antenna can be used with a variety of satellite navigation receivers, and is widely used in fields such as geodetic surveying and mapping, channel surveying and mapping, precision agriculture and marine surveying, and can also be selected for use in the military field according to application conditions.

KEY FEATURES

- Comprehensive GNSS support, including GPS, GLONASS, Beidou and Galileo
- Robust low-elevation satellite tracking
- Adopts multi-feed point design, ensures the performance of right-hand circular polarization and phase center, reduces the influence of measurement error
- An internal multi-path-rejection board eliminatesmulti-path interference errors
- High Gain, good reception for lowelevation satellite signals, ensure the signal can still be received normally in some severely occluded occasions



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PERFORMANCE

LNA Gain

| Signal Received | |
|-------------------------|---------------|
| GPS | L1/L2/L5 |
| GLONASS | L1/L2 |
| BDS | B1/B2/B3 |
| GALILEO | E1/E2/E5a/E5b |
| BT/WIFI | |
| Mobile Communication 4G | |

| Mobile Communication 4G | |
|-------------------------|--------|
| VSWR | ≤2.0 |
| Maximum Gain | |
| GNSS | 5.5dBi |
| BT/WIFI | 1dBi |
| Mobile Communication 4G | 0.5dBi |
| Antenna AR | ≤3.0dB |
| Phase Center Error | ±2mm |
| Polarization | RHCP |
| Port Impedance | 50Ω |

| Band Flatness | ±2dB |
|---------------------------------|------------|
| Noise Figure | ≤2.0dB |
| Operation Voltage | 3.3-12 VDC |
| Operation Current | ≤45mA |
| Differential Transmission Delay | ≤5ns |

MECHANICAL

| Dimensions | Ф127.5×27mm |
|-------------------------|-------------|
| Connector | |
| GNSS | MCX-JW |
| BT/WIFI | IPEX |
| Mobile Communication 4G | MMCX-JW |
| Weight | ≤230g |
| ENVIRONMENTAL | |

ENVIRUNMENTAL

| Temperature | |
|-------------|--------------------|
| Operating | -40°C to +85°C |
| Storage | -55°C to +85°C |
| Humidity | 95% non-condensing |

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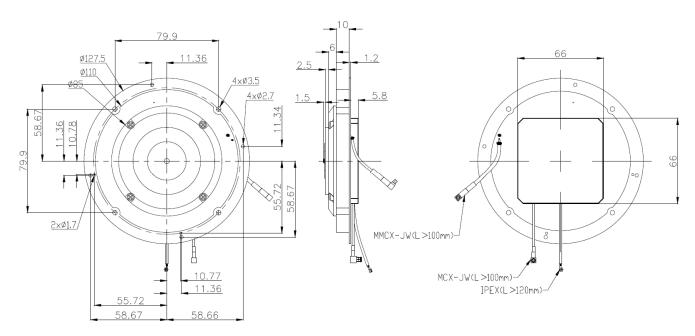
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Structure& Phase Center Drawing (mm)

40±2dB



Undeclared tolerance:±0.3mm