

## HIGH PRECISION GNSS ANTENNA FOR SURVEYING APPLICATIONS

### Product Description

The MG4N08A is a super performance GNSS Antenna that can track GPS, GLONASS, BDS, Galileo, L-Band and SBAS. Featuring with high gain, low noise amplifier, high sensitivity and strong tracking capability, MAT-408 is a good choice for users to develop systems or solutions for land survey, agriculture, construction and deformation monitoring.

### 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

- Support GPS L1/L2/L5, GLONASS L1/L2, BDS B1/B2/B3, Galileo E1/E5a/E5b, SBAS and L-Band
- Low noise amplifier and high gain
- Millimeter level phase center error with outstanding stability and repeatability
- Strong capability of tracking satellites at low elevation angle
- Superior waterproof and dustproof design
- Strong anti-interference ability to endure the harshest operating environments



# GEODETIC ANTENNA MG4N08A



## PERFORMANCE

Signal Received	
GPS	L1/L2/L5
GLONASS	L1/L2/L5
BDS	B1/B2/B3
GALILEO	E1/E2/E5a/E5b/E6
L_band	
VSWR	<2.0
Maximum Gain	5.5dBi
Antenna AR	≤3.0dB
Azimuth Coverage	360°
Phase Center Error	±2mm
Polarization	RHCP
Port Impedance	50Ω
LNA Gain	40±2dB

Band Flatness	±2dB
Noise Figure	≤2.0dB
Operation Voltage	3.3-15 VDC
Operation Current	≤45mA

## MECHANICAL

Dimensions	Φ147×67.7mm
Connector	TNC-K
Weight	≤400g

## ENVIRONMENTAL

Temperature	
Operating	-40°C to +70°C
Storage	-55°C to +85°C
Humidity	95% non-condensing

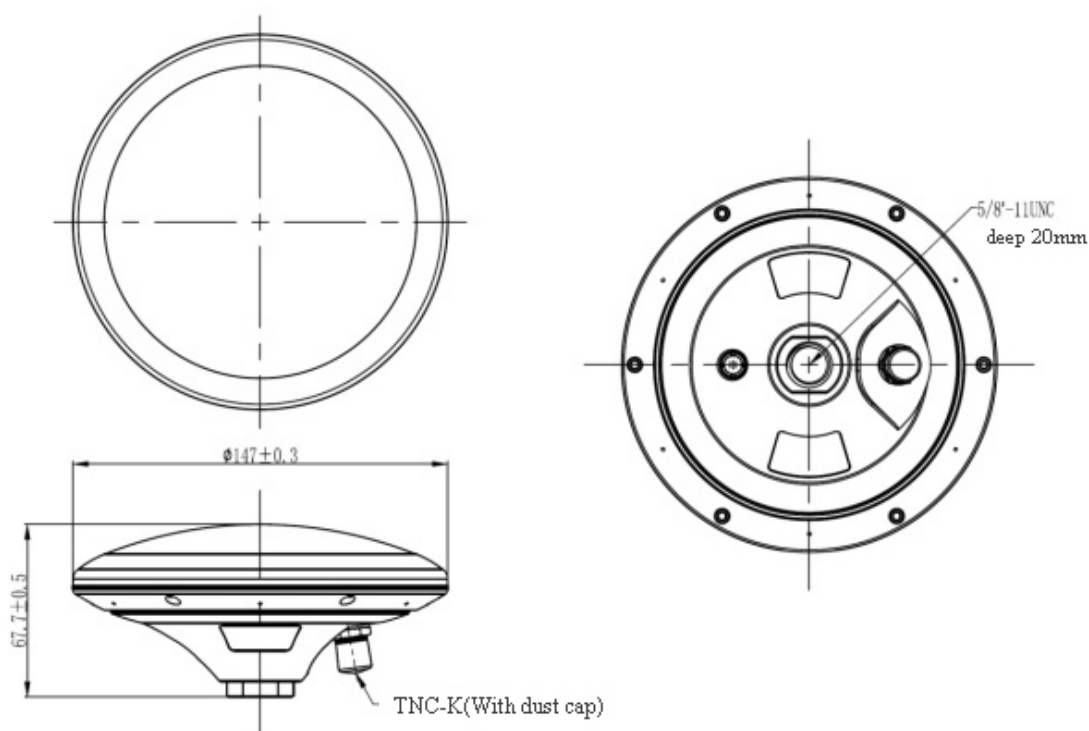
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## Structure & Phase Center Drawing (mm)



Undeclared tolerance: ±0.3mm