

Description

The MEA-433-IGG Screw Mount Antenna is a 2-in-1 low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-433-IGG covers all ISM, and GPS/GLONASS standard frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications. The high performance and low profile make this antenna ideal for the most challenging installations.

This screw mount antenna is easy to install with maximum durability offering IP67 rated housing and anti-rotation mounting. The MEA-433-IGG has a two cables with a SMA-Male standard connectors, 3m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types.

Electrical Specifications

Cable 1 - 433 MHz ISM Antenna

Parameter	Specification	
Standards	ISM, LoRa	
Band (MHz)	433 MHz	
Frequency (MHz)	433-435	
Return Loss (dB)	~ -11.2	
VSWR	~ 1.7:1	
Efficiency (%)	~ 51	
Peak Gain (dBi)	~ -0.4	
Average Gain (dB)	~ -2.9	
Impedance (Ω)	50	
Polarization	Linear	
Radiation Pattern	Omin-Directional	
Max Input Power (W)	50	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	RG174 Standard (Other Cables Available)	



Features

- ISM and GPS/GLONASS frequency coverage
- Easy mounting: Screw Mount
- Customizable Cable and Connector
- Dimensions 186.5 x 63 mm
- IP67
- IP69K
- · Low weight 166g

Applications

- IoT applications
- Telematic
- Navigation
- · LTE applications



Electrical Specifications

Cable 1 - GPS/GLONASS Antenna

Parameter	Specification		
Standards	GPS	GLONASS	
Band (MHz)	1575	1602	
Frequency (MHz)	1575.42	1598-1610	
Return Loss (dB)	<-20		
VSWR	< 1.2:1		
Impedance (Ω)	50		
Polarization	RHCP		
Radiation Pattern	Hemispherical		
Saw Filter	No Filter		
Active Gain (dB)	26 @ 3V / 27dB @ 5V		
Noise Figure (dB)	1.5		
Voltage (V)	2.7 - 5.5		
Current (mA)	15 - 25		
Power Consumption (mW)	40 - 137		
Connector Type	Most RF Connectors (SMA-Male Standard)		
Cable Length	Any Cable Length (200cm Standard)		
Cable Type	Other Cables Available (RG174 Standard)		

Antenna Measurement Conditions:

Mounted on metal plate of 30 x 30 cm 200 cm of cable RG174 Measured in certified CTIA 3D anaechioc chamber

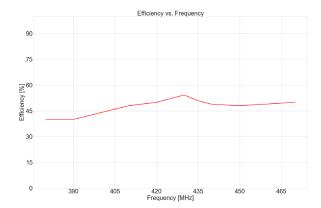
Mechanical and Environmental Specifications

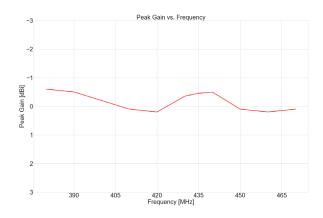
Parameter	Specification
Mounting Type	Screw Mount
Dimensions (mm)	186.5 x 63
Max. Tighten Torque (Nm)	6
Radome	ABS
Radome Color	Black
Antenna Base	Zamak
Gasket	TPE
Operating Temperature (C)	-40 to +85°
Storage Temperature (C)	-40 to +85°
Substance Compliance	RoHS
Certificates	IP67, IP69K

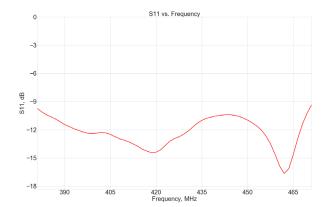


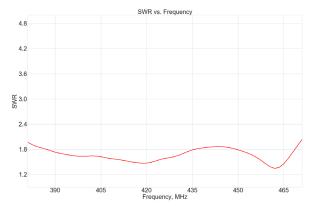
Radiation Performance

MEA-433-IGG

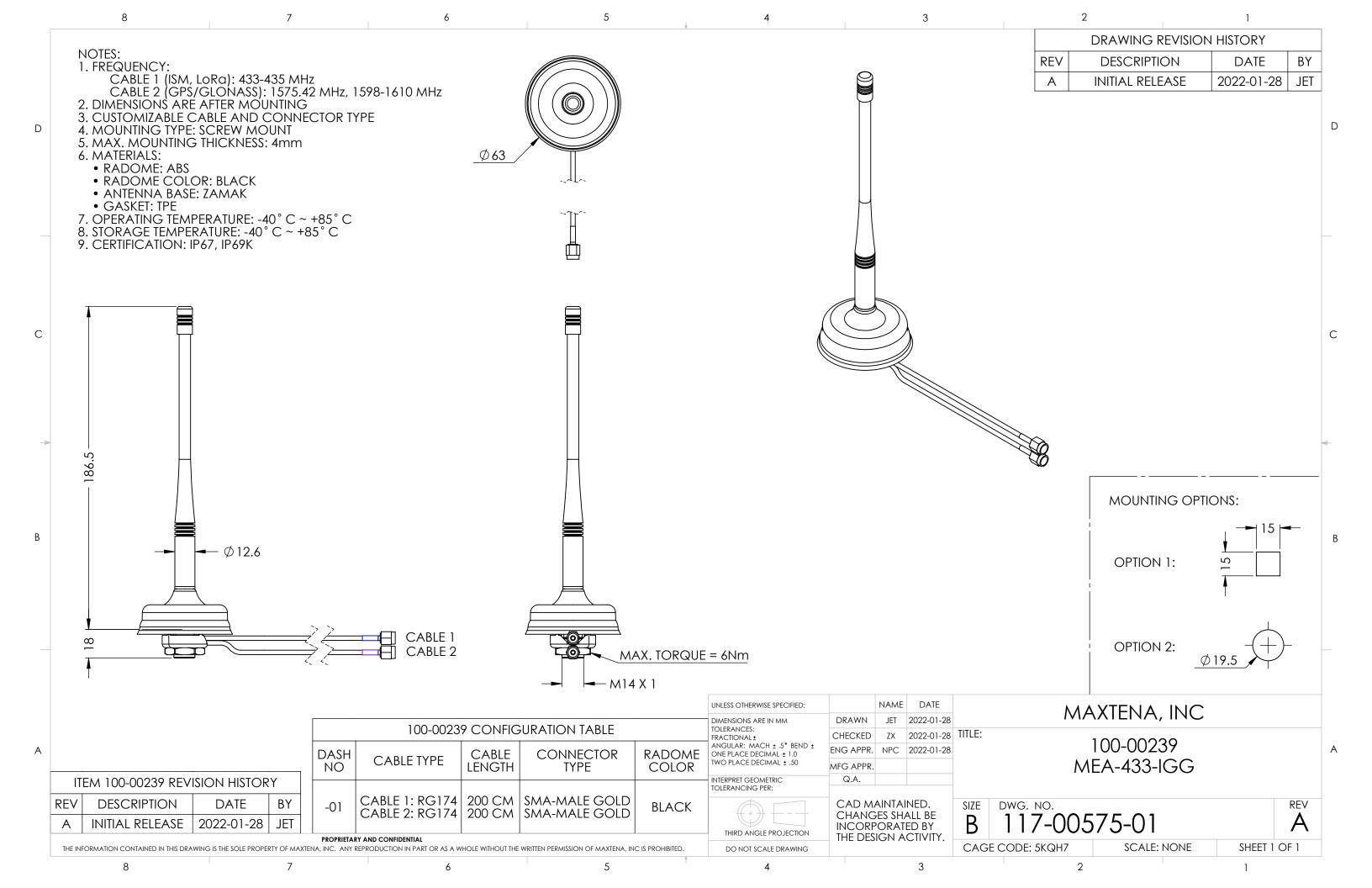












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