

Part #: 189-00065-01

Description

The MEA-LGI-SMA Screw Mount Antenna is a 3-in-1 low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-LGI-SM covers all 5GNR, Iridium and GPS/GLONASS/QZSS/Galileo 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-LGI-SMA has a three cables with a SMA-Male standard connectors, 2m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types.

Cable 1 - 5GNR Antenna		
Technology	5G, 4G, 3G and 2G	
Frequency Range Band Return Loss VSWR Efficiency Peak Gain Average Gain	617-960 MHz 600, 700, 850, 900 MHz -8.9 dB 2.6:1 55.0% 2.3 dBi -2.7 dB	
Frequency Range Band Return Loss VSWR Efficiency Peak Gain Average Gain	1427-2690 MHz 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600 MHz -9.2 dB 2.4:1 51.2% 5.1 dBi -3.1 dB	
Frequency Range Band Return Loss VSWR Efficiency Peak Gain Average Gain	3300-5000 MHz 3300, 3500, 3600, 3700, 4500 MHz -8.2 2.7:1 25.7% 2.6 dBi -6.7 dB	
Frequency Range Band Return Loss VSWR Efficiency Peak Gain Average Gain	5150-5925 MHz 5200, 5500, 5800 MHz -7.5 dB 2.5:1 28.3% 2.7dBi -5.5 dB	
Impendance	50 Ohm	
Polarization	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power	25 W	



Features

- · 3in1 antenna: 5GNR, Iridium and GNSS
- Ultra-Wide band antenna
- · High performance
- Easy mounting: Screw Mount
- · Optimized for Iridium network
- · Anti-Rotation Mounting
- Ground Plane Independent
- Customizable Cable and Connector
- Low profile 80 × 74 × 25.6 mm
- IP67
- IP69

Applications

- IoT applications
- Telematic
- Navigation
- Satellite Communications
- LTE applications



Cable 2 - Iridium Antenna	
Frequency Range	1616 - 1627 MHz
Band	1621 MHz
Return Loss	-12.5 dB
VSWR	1.6:1
Efficiency	68.1%
Peak Gain	5.2 dBic
Average Gain	-1.8 dB
Radiation Pattern	Hemispherical
Polarization	RHCP

Cable 3 - GNSS Ceramic Active Antenna		
Frequency Range	1575.42 MHz	1598-1606 MHz
Band	1575 MHz	1602 MHz
Return Loss	≤ -15.0 dB	
VSWR	≤ 1.4:1 dB	
Efficiency	68.1%	
Impedance	50 Ohms	
Active Gain	28 dB @ 2.7 V	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Saw Filter Type	Pre-filter	
Noise Figure	1.5 dB Typ	
Voltage	1.5 – 3.6 V	
Current Consumption	9 mA Typ	
Power Consumption	24.3 mW Typ	
ESD Protection	2kV	

Mechanical Specificatoins	
Antenna Dimensions	80 x 74 x 25.6 mm
Operating Temperature	-40 °C to +85 °C
Certificates	Iridium Certified, IP67, IP69
Connector	SMA male
Antenna Color	Black, White
Radome Type	PC + ASA
Substance Compliance	RoHS
Cable Length	300 cm
Mounting style	Screw mount
Max. Tighten Torque	5 Nm

^{*}Antenna Measurment Conditions: Mounted on metal plate of 30x30cm























