

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 Return Loss VSWR Efficiency Peak Gain Average Gain	617-960 MHz -8.9 dB 2.6:1 55.0% 2.3 dBi -2.7 dB	
Frequency Range Return Loss VSWR Efficiency Peak Gain Average Gain	1427-2690 MHz -9.2 dB 2.4:1 51.2% 5.1 dBi -3.1 dB	
Frequency Range Return Loss VSWR Efficiency Peak Gain Average Gain	3300-5000 MHz -8.2 2.7:1 25.7% 2.6 dBi -6.7 dB	
Frequency Range Return Loss VSWR Efficiency Peak Gain Average Gain	5150-5925 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	Iridium
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	1559 - 1608 MHz
Band	GPS/GLONASS/QZSS/Galileo
Return Loss	≤ -15 dB
VSWR	1.4:1
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	200 cm
Mounting style	Screw mount
Max. Tighten Torque	5 Nm

<sup>\*</sup>Antenna Measurment Conditions: Mounted on metal plate of 30x30cm























