

MEA-LGI-SMA 5G NR, Iridium and GNSS Screw Mount 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-SMA covers all 5G NR, 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 - 5G NR Antenna

| | |
|-------------------|-------------------|
| Technology | 5G, 4G, 3G and 2G |
| Frequency Range | 617-960 MHz |
| Return Loss | -8.9 dB |
| VSWR | 2.6:1 |
| Efficiency | 55.0% |
| Peak Gain | 2.3 dBi |
| Average Gain | -2.7 dB |
| Frequency Range | 1427-2690 MHz |
| Return Loss | -9.2 dB |
| VSWR | 2.4:1 |
| Efficiency | 51.2% |
| Peak Gain | 5.1 dBi |
| Average Gain | -3.1 dB |
| Frequency Range | 3300-5000 MHz |
| Return Loss | -8.2 |
| VSWR | 2.7:1 |
| Efficiency | 25.7% |
| Peak Gain | 2.6 dBi |
| Average Gain | -6.7 dB |
| Frequency Range | 5150-5925 MHz |
| Return Loss | -7.5 dB |
| VSWR | 2.5:1 |
| Efficiency | 28.3% |
| Peak Gain | 2.7dBi |
| Average Gain | -5.5 dB |
| Impedance | 50 Ohm |
| Polarization | Linear |
| Radiation Pattern | Omni-Directional |
| Max. Input Power | 25 W |

Features

- 3in1 antenna: 5G NR, 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 |

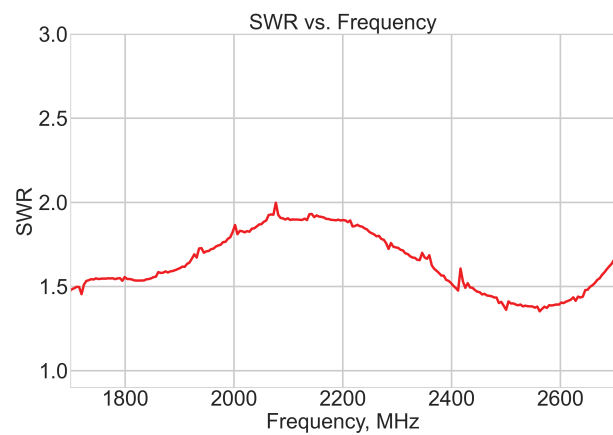
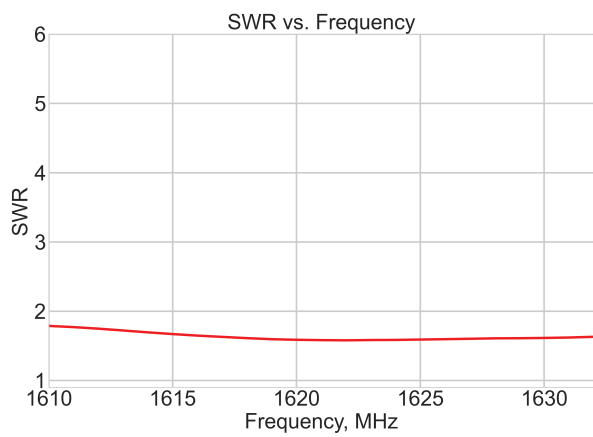
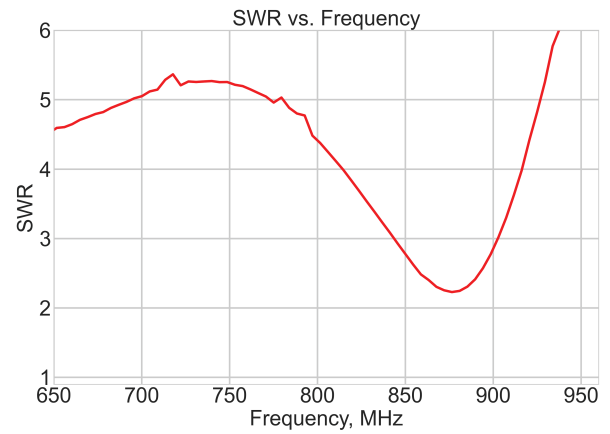
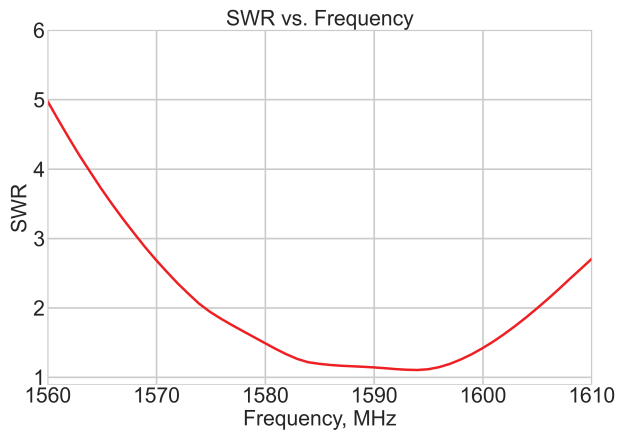
Mechanical Specifications

| | |
|-----------------------|-------------------------------|
| 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 |

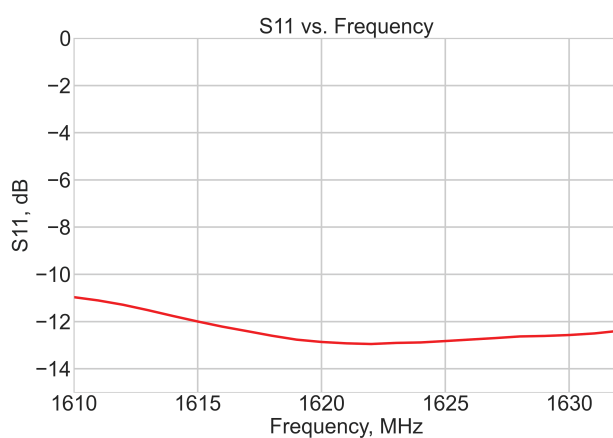
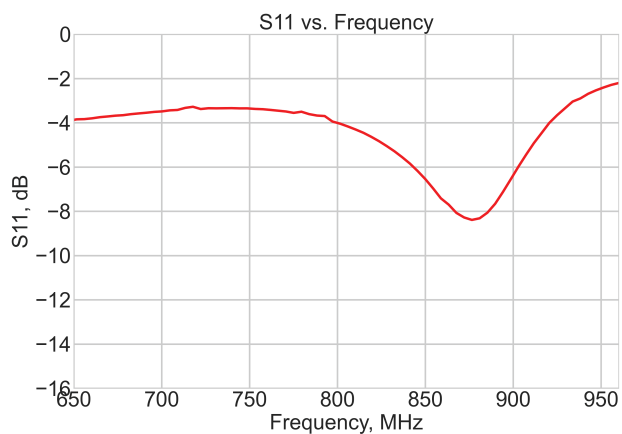
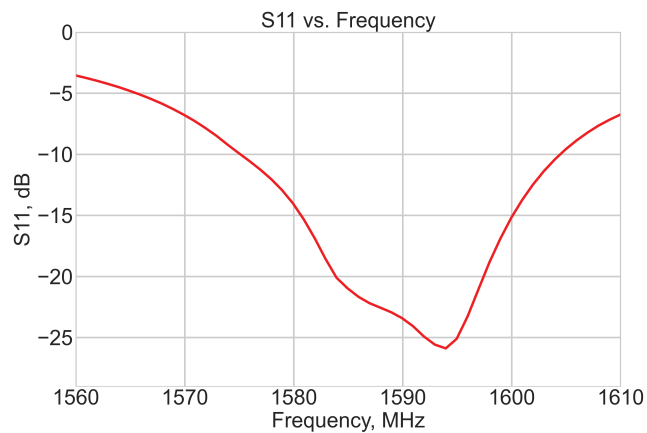
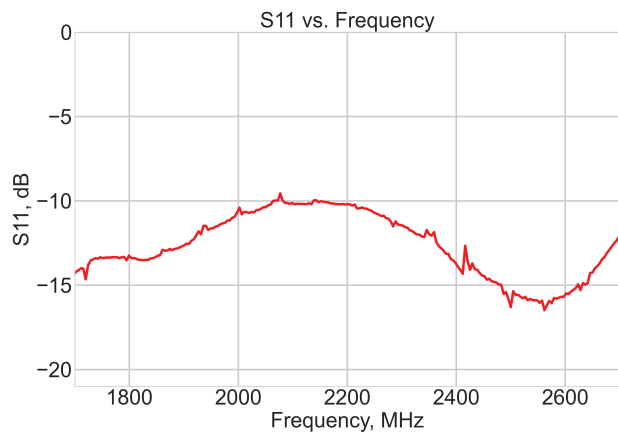
*Antenna Measurement Conditions:
Mounted on metal plate of 30x30cm



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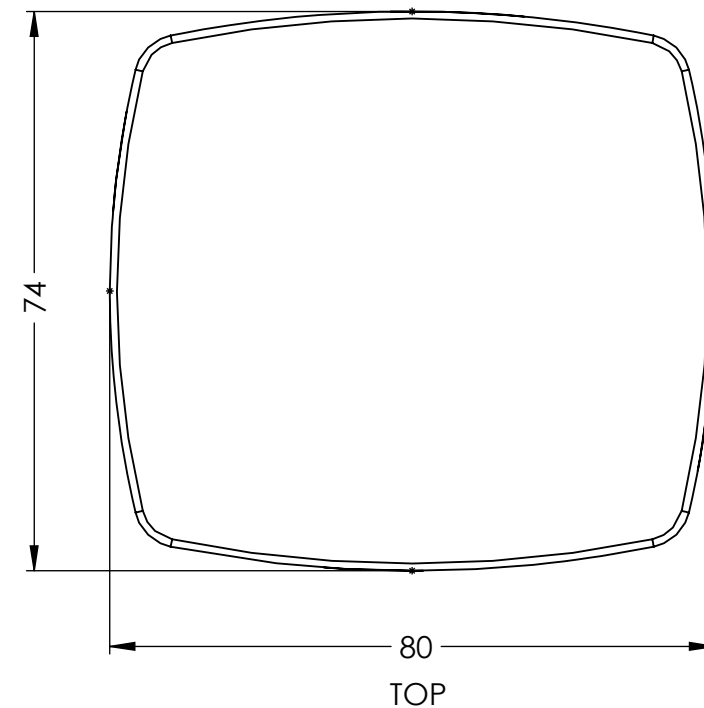
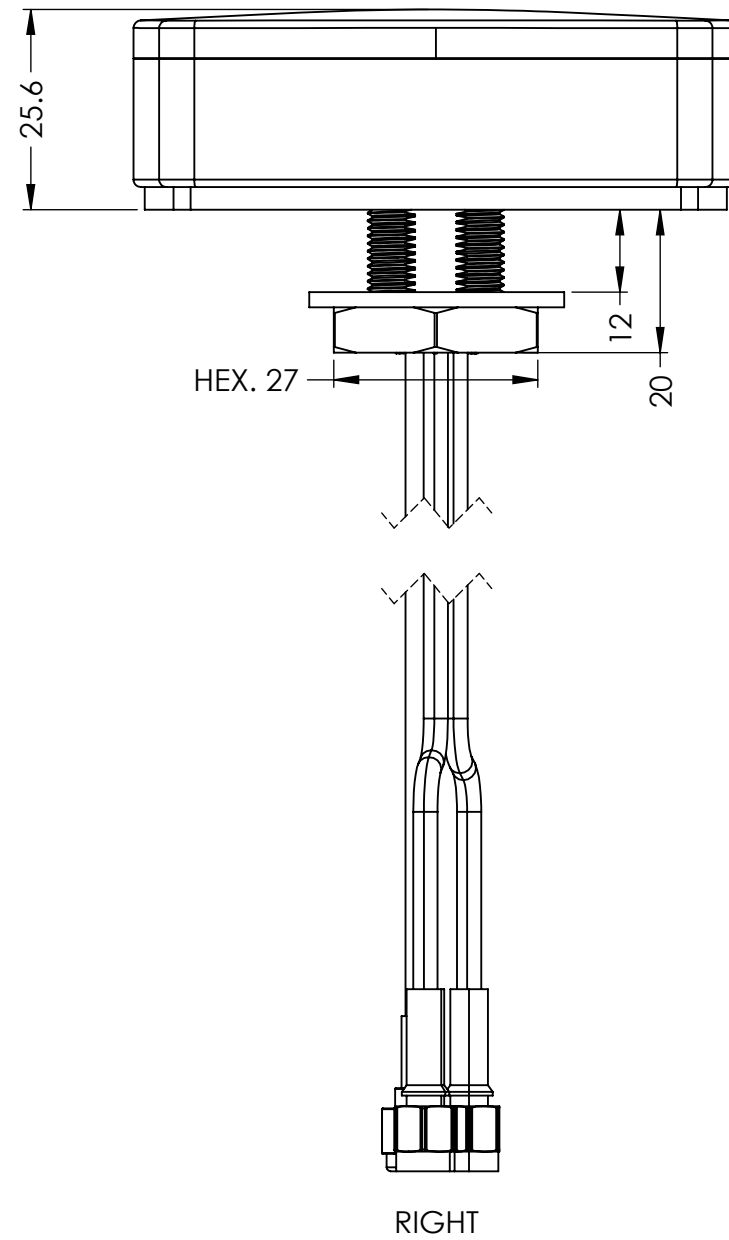
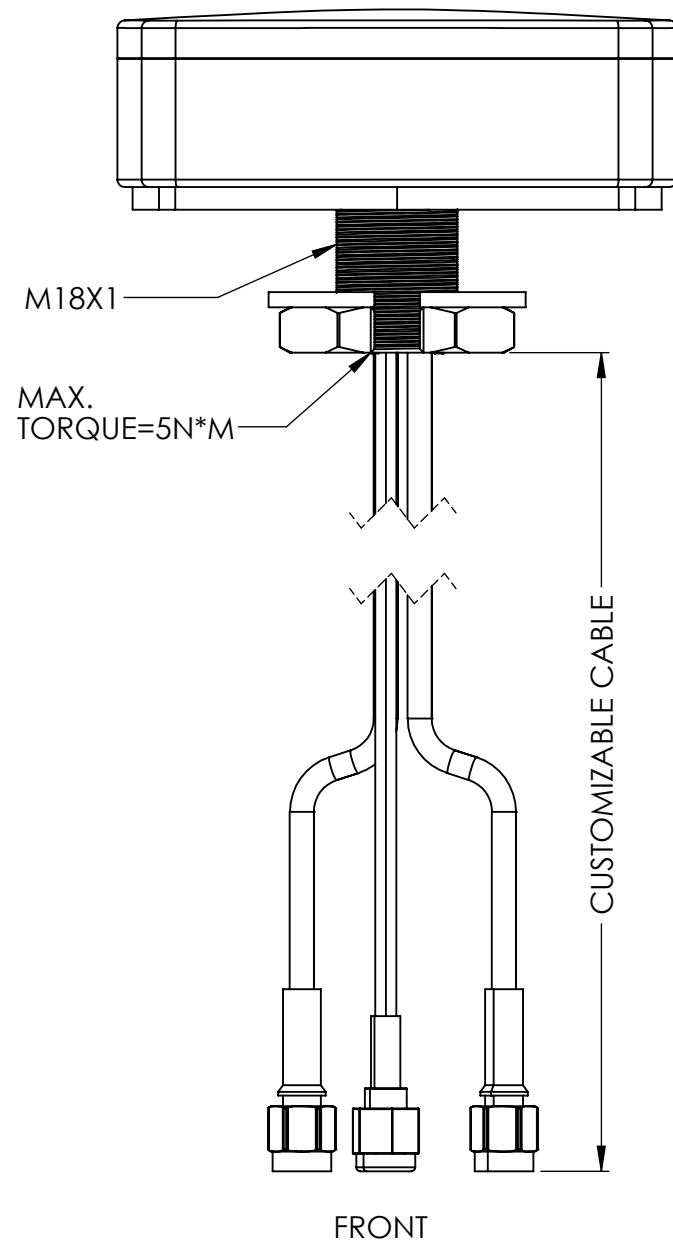


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| DRAWING REVISION HISTORY | | | |
|--------------------------|-----------------|------------|----|
| REV | DESCRIPTION | DATE | BY |
| A | INITIAL RELEASE | 2021-03-17 | QZ |



- NOTES:
1. FREQUENCY:
 - CABLE 1 (5G NR): 617-960 MHz; 1427-2690 MHz; 3300-5000 MHz; 5150-5925 MHz
 - CABLE 2 (IRIDIUM): 1616-1627 MHz
 - CABLE 3 (GPS/ GLONASS/ QZSS/ GALILEO): 1575-1606 MHz
 2. DIMENSIONS ARE AFTER MOUNTING
 3. MAX. MOUNTING THICKNESS: 12MM
 4. RADOME TYPE: PC+ASA
 5. RADOME COLOR: BLACK, WHITE
 6. CUSTOMIZABLE CABLE AND CONNECTORS
 7. CERTIFICATES: IP67, IP69
 8. OPERATING TEMPERATURE: -40 °C ~ 85 °C
 9. STORAGE TEMPERATURE: -40 °C ~ 85 °C

| ITEM 189-00065 REVISION HISTORY | | | |
|---------------------------------|-----------------|------------|----|
| REV | DESCRIPTION | DATE | BY |
| A | INITIAL RELEASE | 2021-03-17 | QZ |

| 189-00065 CONFIGURATION TABLE | | | |
|-------------------------------|--------------|---|----------------|
| DASH NO | RADOME COLOR | CABLE & LENGTH | CONNECTOR TYPE |
| -01 | BLACK | CABLE 1 : D302,2M; CABLE 2 : D302,2M; CABLE 3 : D100,2M | SMA MALE |

| | | | | | | |
|---|--|------|------------|--|--------------------------|--------------|
| UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | MAXTENA, INC | | |
| DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± .5° BEND ± INTEGER ± 2 ONE PLACE DECIMAL ± 1.0 TWO PLACE DECIMAL ± .50 INTERPRET GEOMETRIC TOLERANCING PER: | DRAWN | QZ | 2021-03-18 | | | |
|  | CHECKED | ZX | 2021-05-27 | TITLE: 189-00065 MEA-LGI-SMA | | |
| | ENG APPR. | NPC | 2021-05-27 | | | |
| | MFG APPR. | | | | | |
| | Q.A. | | | | | |
| | CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY. | | | SIZE B | DWG. NO. 117-00463-01 | REV A |
| DO NOT SCALE DRAWING | | | | CAGE CODE: 5KQH7 | SCALE: NONE | SHEET 1 OF 1 |

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