

# ME A-4-GGC

## GPS/GLONASS & 2G/3G

Part #: 100-00119-01



### Description

Maxtena's MEA-4-GGC GPS/GLONASS & 2G/3G cellular solution is a high performance antenna in one compact and secure housing. It covers GPS/GLONASS (1575-1610 MHz) and 2G & 3g Cellular (824-894 MHz), & (1850-1990 MHz). This low-profile antenna is a magnetic mount with rugged ABC plastic housing and is ideal for the most demanding environment challenges. The standard MEA-4-GGC comes with 1 meters RG174 cable and SMA connectors for both GPS/GLONASS and cellular cables. Cable and connectors are customizable upon request. The MEA-4-GGC provides outstanding performance for any telematics, remote monitoring, and fleet management application.

#### GPS GLONASS Electrical Specifications

|                       |  |
|-----------------------|--|
| Frequency Range (MHz) | 1575.42 / 1602 MHz                             |
| VSWR                  | 2.0 : 1 Max                                    |
| Impedance             | 50 $\Omega$                                    |
| Polarization          | Linear   |
| Gain @ Zenith         | 1 dBi Typ. @ 1575 MHz<br>1 dBi Typ. @ 1602 MHz |

### Features

- Covers the following bands: GSM/GPRS/CDMA/PCS/DCS/WCDMA/UMTS/HSPA/GPS/ GLONAS
- Low profile antenna for easy installation
- High LNA Gain
- Low noise figure
- Ultra-low power consumption
- IP65 water resistant
- Customizable cable length
- Customizable connector
- Foam Adhesive or Magnet
- ROHS Compliant

### Applications

- Fleet management
- Monitoring
- Telematics

#### LNA Electrical Specifications

|                       |                        |
|-----------------------|------------------------|
| Frequency Range (MHz) | 1575.42 / 1602 MHz     |
| VSWR                  | 2.0 : 1 Max            |
| Impedance             | 50 $\Omega$            |
| Antenna Gain (@3.3 V) | 28 dB Typ. / 25 dB Min |
| DC Power Input        | 3~5 V                  |
| Noise Figure          | 2.5 dB Typ.            |
| Power Consumption     | 9 mA Typ.              |

#### Cellular Electrical Specifications

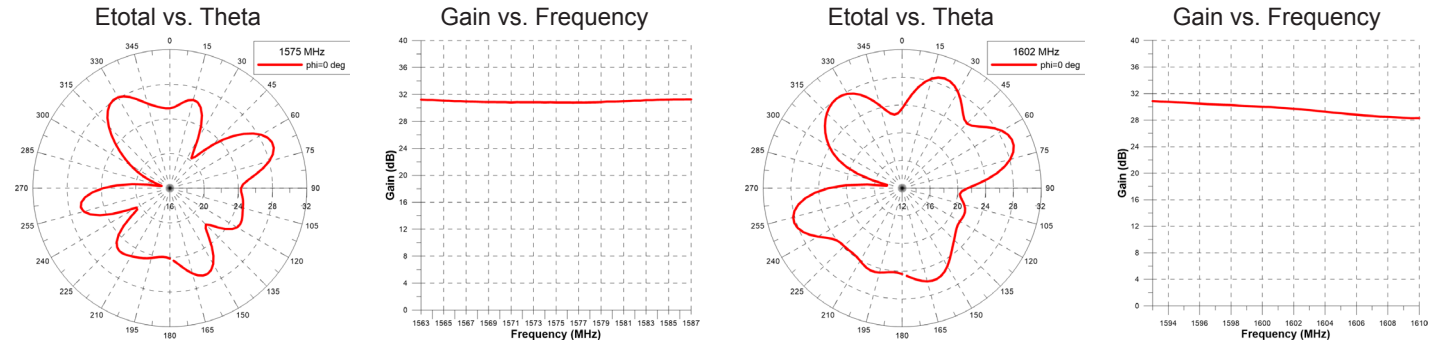
|                       |  |
|-----------------------|--|
| Frequency Range (MHz) | 824~894 MHz / 1850~1990 MHz                              |
| VSWR                  | 824~894 MHz $\leq$ 3.5<br>1850~1990 MHz $\leq$ 3         |
| Impedance             | 50 $\Omega$  |
| Peak Gain             | 1.0 dBi Typ. @824~894 MHz<br>5.0 dBi Typ. @1850~1990 MHz |
| Average Efficiency    | 824~894 MHz $\geq$ 20%<br>1850 ~1990 MHz $\geq$ 35%      |

## Mechanical Specifications

|                          |                                     |
|--------------------------|-------------------------------------|
| Antenna Dimensions       | 58.15 x 56.2 x 16.8 mm              |
| Mounting Function        | Magnet or Foam Adhesive             |
| Operating Temperature    | -40 °C ~ +85 °C                     |
| Housing Material & Color | PC & Black                          |
| Cable                    | RG-174                              |
| Cable Length             | 1M                                  |
| Connector                | SMA/FAKRA or customer specification |
| Waterproof               | IP65                                |

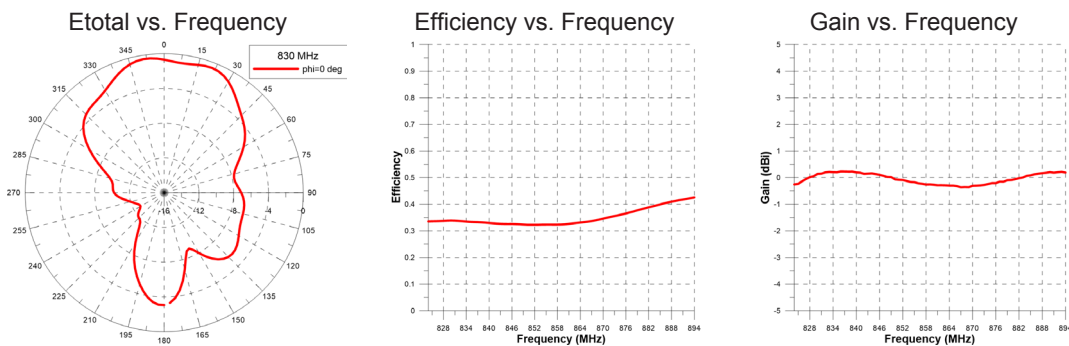
## Radiation Specifications

1575.42 / 1602 MHz



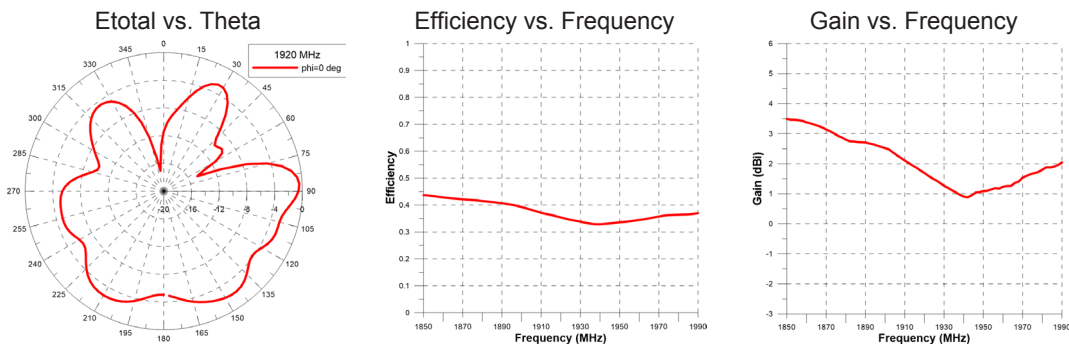
## Radiation Specifications

824~894 MHz



## Radiation Specifications

1850~1990 MHz





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