



Multi-Band Bluetooth/Wi-Fi Antenna with Proprietary High Rejection GPS/GLONASS, Compact Footprint

The GLMBWIFI-QMA provides Bluetooth/Wi-Fi coverage and asset tracking support for public safety vehicles requiring a rugged and lower profile antenna solution for their Wi-Fi hot-spot networks. The GLMBWIFI-QMA features a shorter housing for installations with height clearance limitations, such as public safety motorcycles. When properly installed, this antenna is IP67 compliant for maximum protection against water or dust ingress under severe environmental conditions. The antenna's low loss coax cables are terminated with Male QMA connectors but other connector options and cable lengths are available upon request.

Features

- No tune, dual-band 2.4/5 GHz Wi-Fi and Bluetooth coverage with high rejection GPS L1/GLONASS
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement
- IP67 compliant design provides maximum protection against water or dust ingress under severe environmental conditions*
- Low-profile, UV-resistant housing for low overhead clearance applications



GLMBWIFI-QMA antenna with cables

STANDARD CONFIGURATION

| Model | Cable | Connector | Mount | Housing Color |
|--------------|--|--|--|---------------|
| GLMBWIFI-QMA | One-17 feet PFP240 (BT/Wi-Fi) One-17 feet PFP100 (GNSS) | QMA Plug (BT/Wi-Fi) QMA Plug (GNSS) | 1-inch hole, 3/4-inch long (.75") zinc stud mount with jam nut | Black |

ELECTRICAL SPECIFICATIONS - RF ANTENNA

| Model | Elements | Operating Frequencies | Polarization | Nominal Impedance | Gain** | Maximum Power | VSWR*** |
|--------------|---------------|------------------------------|------------------|-------------------|--------------------|---------------|--------------------|
| GLMBWIFI-QMA | Wi-Fi Element | 2.4-2.5 GHz / 4.9-5.9 GHz | Vertical, linear | 50 ohms | 3.5 dBi 3.2 dBi | 50 watts | < 2.0:1 < 2.0:1 |

* If installed according to PCTEL's installation instructions
 **Peak gain measured in an anechoic setup/open space with no interference, with the antenna mounted on a 36" diameter ground plane. Measured gain is corrected for the appropriate cable loss.
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ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

| Frequency Range | Amplifier Gain | Nominal Impedance | Output VSWR | DC Current | DC Voltage | Noise Figure |
|-----------------|-------------------------------|-------------------|-----------------|-----------------|---|-----------------------|
| 1565-1608 MHz | @ 3.0 VDC: 26 dB (typical) | 50 ohms | 2.0:1 (maximum) | 25 mA (typical) | 2.8-6.0 V (operating) ≤ 12.0 V (survivability) | < 2.0 dB (typical) |

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

| Out-of-Band Rejection | Nominal Gain | Polarization |
|--|------------------------------|---------------------|
| $f_0 = 1586 \text{ MHz} / f_0 \pm 50 \text{ MHz}: \geq 60 \text{ dBc} / f_0 \pm 60 \text{ MHz}: \geq 70 \text{ dBc}$ | 3 dBic @ 90° / -2 dBic @ 20° | Right hand circular |

MECHANICAL SPECIFICATIONS

| Dimensions (W x H) | Radome Construction | Operating/Storage Temperature | Gasket Design & Construction |
|--|---------------------------------|-------------------------------|--|
| 4.05 W x 4.7 L x 2.75 H in (10.3 x 7 x 11.9 cm) | UV-Stable Rugged Thermoplastics | -40°C to +85°C | Contour matching, conformable, thermoplastic-elastomer gasket designed to seal between radome and baseplate. Gasket flexes and conforms to contoured surfaces. Baseplate has a 3M™ VHB mounting pad for anti-rotation. |

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