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.

GLMBWIFI-QMA antenna with cables

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

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.
** Consult Customer Service for other connector options.
***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.
****Measured in an anechoic setup/open space with no interference, with the antenna mounted on a 36"diameter ground plane.

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

RoHS COMPLIANT

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
f0 = 1586 MHz / f0 ± 50 MHz: ≥ 60 dBc / f0 ± 60 MHz: ≥ 70 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.