



Multi-Band LTE MIMO & 802.11ac Antennas with High Rejection GPS/GLONASS

The Coach antennas provide optimal 4G LTE and dual-band 802.11ac Wi-Fi coverage in a single, low-profile housing. The antennas also incorporate PCTEL's unique high rejection GPS/GLONASS technology for optimal performance and support of carrier voice and data networks.

Features

- No tune, multi-band coverage: dual 4G LTE, dual or triple 802.11 ac Wi-Fi MIMO options, and GPS L1/Galileo/GLONASS frequencies
- Metal 1-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*
- UV-resistant black or white housing options complement most vehicular aesthetic requirements
- Proprietary filtering design allows wideband coverage while achieving superior out-of-band rejection for all GNSS frequencies



GLHPDLTEMIMO-SF (left)
BGLHPDLTEMIMO-SF (right)

STANDARD CONFIGURATION

| Model | Cable | Connectors*** | Mounting Method |
|-----------------|--|--|--|
| GLHPDLTEMIMO-SF | Two-17 feet Pro-Flex™ Plus 195 (4G LTE Elements) Two-17 feet Pro-Flex™ Plus 195 (802.11n Wi-Fi Elements) One-17 feet RG-174/U (GNSS Element) | SMA Plug (LTE) Reverse Polarity SMA Plug (Wi-Fi) SMA Plug (GNSS) | 1-inch OD, 3/4-inch long (.75") zinc stud mount with jam nut (all models) |
| GLHPDLTE-SF | Two-17 feet Pro-Flex™ Plus 195 (4G LTE Elements) One-17 feet RG-174/U (GNSS Element) | SMA Plug (LTE) SMA Plug (GNSS) | |
| GLHPDM3-SF | Two-17 feet Pro-Flex™ Plus 195 (4G LTE Elements) Three-17 feet Pro-Flex™ Plus 195 (802.11n Wi-Fi Elements) One-17 feet RG-174/U (GNSS Element) | SMA Plug (LTE) Reverse Polarity SMA Plug (Wi-Fi) SMA Plug (GNSS) | |

ELECTRICAL SPECIFICATIONS - RF ANTENNAS

| Model | Frequency Range | Elements | Polarization | Nominal Impedance | Gain** (typical) | Maximum Power | VSWR** |
|-----------------|--|---|------------------|-------------------|--------------------|---------------|---------|
| GLHPDLTEMIMO-SF | 698-960 MHz / 1710-2700 MHz 2.4-2.5 GHz / 4.9-5.9 GHz | 4G LTE Elements (2 each) Dual-Band Wi-Fi Elements (2 each) | Vertical, linear | 50 ohms | 2.5 dBi 3-4 dBi | 50 watts | < 2.0:1 |
| GLHPDLTE-SF | 698-960 MHz / 1710-2700 MHz | 4G LTE Elements (2 each) | Vertical, linear | 50 ohms | 2.5 dBi | 50 watts | < 2.0:1 |
| GLHPDM3-SF | 698-960 MHz / 1710-2700 MHz 2.4-2.5 GHz / 4.9-5.9 GHz | 4G LTE Elements (2 each) Dual-Band Wi-Fi Elements (3 each) | Vertical, linear | 50 ohms | 2.5 dBi 3-4 dBi | 50 watts | < 2.0:1 |

* When properly installed on a vehicle rooftop per PCTEL installation instructions. ** Measured on a 4-foot diameter ground plane. Gain value is measured at the base of the antenna (no cable loss included).

*** Consult Customer Service for other connector options.



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ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

| Frequency Band | Amplifier Gain | Output VSWR | DC Current | DC Voltage | Noise Figure: | Out-of-Band Rejection: |
|----------------|----------------------------|-----------------|-----------------|---|--------------------|---|
| 1565-1608 MHz | @ 3.0 VDC: 26 dB (typical) | 2.0:1 (maximum) | 25 mA (typical) | 2.8-6.0 V (operating) ≤ 12.0 V (survivability) | < 2.0 dB (typical) | f ₀ = 1586 MHz f ₀ ± 50 MHz: ≥ 60 dBc f ₀ ± 60 MHz: ≥ 70 dBc |

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

| Frequency Band | Nominal Gain | Polarization | Nominal Impedance |
|----------------|-------------------------------|---------------------|-------------------|
| 1565-1608 MHz | 3 dBic @ 90° -2 dBic @ 20° | Right hand circular | 50 ohms |

MECHANICAL SPECIFICATIONS AND ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

| Dimensions | Housing Material***** | Temperature Range | Gasket Design & Construction |
|-------------------------------|---|-------------------|--|
| 5.1 x 3.6 in (130 x 92 mm) | White or Black, 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. |

**** VSWR < 2:1 across all bands when measured on 1-ft diameter ground plane with 17-ft cable. When measured on 1-ft diameter ground plane with 1-ft cable, VSWR < 2:1 698-960 MHz, <2:1 1710-2170 MHz, and < 2.5:1 2300-2700 MHz. 3M is a trademark of 3M Company.
*****Black radome option also available. Add "B" in front of the part number for black radome option.