



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

PCTEL's magnetic mount antennas provide optimal 4G LTE MIMO coverage in a single low-profile housing. The antennas also incorporate a high rejection GPS LNA assembly for optimal performance and support of carrier voice and data networks.

Features

- No tune, multi-band coverage
- Magnetically mounted using heavy-duty internal rare earth magnets
- Rubber pad on the bottom of the antenna prevents slippage and protects the mounting surface
- IP67 compliant design***
- High performance, low loss cable and high quality connectors
- UV-resistant black or white housing options
- Superior out-of-band rejection; provides optimal performance in multi-band installations



GPSHPDLTE-SF-MM



BGLHPDLTEMIMO-SF-MM

STANDARD CONFIGURATION

Model	Cable	Connectors***	Mounting Method
GPSHPDLTEMIMO-SF-MM	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 (GPS L1)	MSMA (LTE) RP-MSMA (Wi-Fi) MSMA (GPS)	Magnet Mount (all models)
GPSHPDLTE-SF-MM	Two-17 feet Pro-Flex™ Plus 195 (4G LTE Elements) One-17 feet RG-174/U (GPS L1)	MSMA (LTE) MSMA (GPS)	

ELECTRICAL SPECIFICATIONS - RF ANTENNAS

Model	Frequency Range	Elements	Polarization	Nominal Impedance	Gain** (typical)	Maximum Power	VSWR**
GPSHPDLTEMIMO-SF-MM	698-960 MHz / 1710-2700 MHz	4G LTE Elements (2 each)	Vertical, linear	50 ohms	2.5 dBi 3-4 dBi	50 watts	< 2.0:1
	2.4-2.5 GHz / 4.9-5.9 GHz	802.11ac Dual-Band Wi-Fi Elements (2 each)					
GPSHPDLTE-SF-MM	698-960 MHz / 1710-2700 MHz	4G LTE Elements (2 each)	Vertical, linear	50 ohms	2.5 dBi	50 watts	< 2.0:1

* Measured on a 4-foot diameter ground plane. Gain value is measured at the base of the antenna (no cable loss included).
 ** 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 < 2:1 698-960MHz, <2:1 1710-2170MHz, and < 2.5:1 2300-2700MHz.
 *** When properly installed on a vehicle rooftop per PCTEL installation instructions.
 ****Black radome option also available. Add "B" in front of the part number for black radome option.



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ELECTRICAL SPECIFICATIONS - GPS ANTENNAS (ALL MODELS)

Frequency Band	DC Current:	DC Voltage	Noise Figure	Filtering
1575.42 MHz (GPS L1)	20 mA nominal; < 30 mA @ -40°C to +85° C	3-12 V	1.8 dB typical	> 40 dB rejection @ ± 50 MHz from center frequency

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

Dimensions	Housing Material****	Temperature Range	Contact Surface & Construction
5.1 x 3.6 in (130 x 92 mm)	White, UV-Stable Rugged Thermoplastics	-40°C to +85°C	Anti-skid liner installed at contact surface to ensure a high friction and mar-free magnetic mount.