



## Multiband LTE MIMO & 802.11ac Antennas with High Rejection GPS

PCTEL's LTE MIMO antennas provide optimal 4G LTE and dual-band 802.11ac Wi-Fi coverage in a single 5-port, 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, multiband coverage: dual 4G LTE, dual or triple 802.11ac Wi-Fi MIMO options and GPS L1 frequencies
- Metal 1-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement
- Attractive low profile housing for added overhead clearance
- IP67 compliant design provides maximum protection against water or dust ingress under severe environmental conditions
- High performance, low loss cable and high quality connectors for maximum RF system efficiency
- UV resistant black or white housing options complement most vehicular aesthetic requirements



GPSHPDLTE-SF



BGPSHPDLTE-SF

### STANDARD CONFIGURATION

Model	Cable	Connectors***	Mounting Method
GPSHPDLTEMIMO-SF	Two-17 feet Pro-Flex™ Plus 195 (4G LTE Elements) Two-17 feet Pro-Flex™ Plus 195 (Wi-Fi Elements) One-17 feet RG-174/U (GPS L1)	MSMA (LTE) RP-MSMA (Wi-Fi) MSMA (GPS)	1-inch hole, 3/4-inch long (.75") zinc stud mount with jam nut (all models)
GPSHPDLTE-SF	Two-17 feet Pro-Flex™ Plus 195 (4G LTE Elements) One-17 feet RG-174/U (GPS L1)	MSMA (LTE) MSMA (GPS)	
GPSHPDLTEWIFI-SF	Two-17 feet Pro-Flex™ Plus 195 (4G LTE Elements) One-17 feet Pro-Flex™ Plus 195 (Wi-Fi Elements) One-17 feet RG-174/U (GPS L1)	MSMA (LTE) RP-MSMA (Wi-Fi) MSMA (GPS)	

### ELECTRICAL SPECIFICATIONS - RF ANTENNAS

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



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## ELECTRICAL SPECIFICATIONS - GPS ANTENNA (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	Radome	Temperature Range	Gasket Design & Construction
5.2 x 3.4 in (132 x 94 mm)	White UV Stable Rugged Thermoplastics****	UV stable CYCOLOY C6200 Radome****	-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.

\* 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 2170-2700MHz.  
 \*\*\* When properly installed on a vehicle rooftop per PCTEL installation instructions. 3M is a trademark of 3M Company  
 \*\*\*\*Black radome option also available. Add "B" in front of the part number for black radome option..