



Radome shown in white.  
Black radome is standard.



### Electrical Specifications GPS Antenna

<b>Frequency Band:</b> 1575.42 MHz (GPS L1)
<b>Amplifier Gain:</b> 26 dB +/- 3 dBic
<b>Nominal Impedance:</b> 50 ohms
<b>Output VSWR:</b> 1.5:1 typical
<b>DC Current:</b> 20 mA Nominal; < 30 mA @ -40°C to +85° C
<b>DC Voltage:</b> 3-13.5 V
<b>Noise Figure:</b> 1.8dB Typical
<b>Out-of-Band Signal Rejection:</b> > 40 dB rejection @ +/- 50 MHz from center frequency

## GPS HIGH PERFORMANCE MULTI-BAND MIMO

The GPSHPMIMO GPS Multi-Band antenna utilizes PCTEL’s most durable and versatile design for vehicular applications requiring MIMO for WiFi applications. This platform offers multi-band coverage, superior GPS LNA technology, an easy to install design, and “top shelf” materials to provide maximum durability and performance for mobile data and video communications.

### Features

- No tune, multi-band coverage: 700/800 MHz Public Safety, 800 MHz Cellular/SMR, 900 MHz GSM/ISM, 1800-2100 MHz GSM/PCS, 3G, 4G, 2.4/5.8 GHz WiFi and 2.3-5.8 GHz Public Safety and WiMAX broadband wireless frequencies
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement
- Attractive low profile design for maximum installation flexibility without antenna orientation restrictions
- IP67 compliant design with custom overmolded gasket provides maximum protection against water or dust ingress under severe environmental conditions when installed on the roof of a vehicle
- 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

### Electrical Specifications - RF Antennas

Model GPSHPMIMO	Operating Frequencies	Polarization	Nominal Impedance	Typical Gain <sup>1</sup>	Max. Power	VSWR
Voice/Data RF Element	698-2500 MHz 3300-3800 MHz	Vertical, linear	50 ohms	1-2 dBi 2-3 dBi	50 Watts	< 2.0:1
Broadband Wireless RF Element #1	1.7-2.8 GHz 4.9-5.9 GHz	Vertical, linear	50 ohms	2-3 dBi 3-4 dBi	50 Watts	< 2.0:1
Broadband Wireless RF Element #2	1.7-2.8 GHz 4.9-5.9 GHz	Horizontal, linear	50 ohms	2-3 dBi 3-4 dBi	50 Watts	< 2.0:1

### Mechanical Specifications

Dimensions	Coax (4)	Connectors
5.2" OD x 2.8" H (132 OD x 71 H mm)	17 feet Pro-Flex Plus 195 (Voice/Data RF Element); 17 feet Pro-Flex Plus 195 (Broadband Wireless Element #1) 17 feet Pro-Flex Plus 195 (Broadband Wireless Element #2) 17 feet RG-174/U (GPS L1)	SMA Plug (Male) standard

### Mechanical and Environmental Specifications

Radome / Baseplate Construction	Mounting Method	Operating / Storage temperature	Ingress Protection
Black, UV stable CYCOLOY C6200 Radome	3/4-inch hole, 3/4 inch long (.75") zinc stud mount with dual jam nuts (included)	-40°C to +85°C	IP67 (when installed on a roof- top)
Zinc baseplate over- molded with black TPE, SANTOPRENE gasket			

<sup>1</sup> Measured on a 4-foot diameter ground plane. Gain value is measured at the base of the antenna (no cable loss included). For other connector options, please refer to GPS Multi-Band Mobile Antenna Configurator Part Number Guide for Quad-Band Models.