



Multi-Band TETRA, LTE Cellular, Wi-Fi Antennas with High Rejection GPS

PCTEL's GPS antenna provides multi-band coverage of TETRA, 700 MHz LTE, GSM, 3G, and Wi-Fi frequencies, in addition to GPS L1 support. Compact and easy to install, this antenna is constructed with high quality components, including a high rejection LNA filter to provide maximum isolation protection for location tracking applications. It is an ideal solution for Mission Critical and Public Safety communications.

Features

- No tune, multi-band coverage: 380-430 MHz TETRA, 700-2500 MHz LTE/3G, 2.3-2.5 GHz Wi-Fi broadband wireless frequencies and GPS L1 tracking
- Attractive, low-profile, UV-resistant housing for maximum overhead clearance
- IP67 compliant design***
- High performance, low loss cable and high quality connectors
- High performance GPS assembly for superior out-of-band rejection; provides optimal performance in multi-band installations



GPSHP-UWB

STANDARD CONFIGURATION

| Model | Cable | Connectors | Mounting Method |
|-----------|--|--------------------------------|---|
| GPSHP-UWB | 7.8" (200 mm) Pro-Flex™ Plus 195 (TETRA 380-430 MHz) 5.9" (150 mm) Pro-Flex™ Plus 195 (698-2500 MHz) 6.8" (175 mm) Pro-Flex™ Plus 195 (2.3-2.5 GHz); 10.6" (270 mm) RG-174/U (GPS L1) | SMA Plug (Male) on all cables. | 3/4-inch hole, 3/4-inch long (.75") zinc stud mount with dual jam nuts (included) |

ELECTRICAL SPECIFICATIONS - RF ANTENNAS

| Frequency Range | Polarization | Nominal Impedance | Gain* (typical) | Maximum Power | VSWR** |
|--|------------------|-------------------|-------------------------|---------------|--|
| 380-430 MHz / 698-2500 MHz / 2.3-2.5 GHz | Vertical, linear | 50 ohms | 1 dBi 3 dBi 4 dBi | 50 watts | < 2.5:1 (max) < 1.68:1 (avg) < 2.0:1 |

ELECTRICAL SPECIFICATIONS - GPS ANTENNA

| Frequency Band | DC Current: | DC Voltage | Noise Figure | Filtering |
|----------------------|---|------------|----------------|--|
| 1575.42 MHz (GPS L1) | 20 mA nominal; < 30 mA @ -40°C to +85° C | 3-13.5 V | 1.8 dB typical | > 40 dB rejection @ ± 50 MHz from center frequency |

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

| Dimensions | Baseplate Construction*** | Radome | Temperature Range |
|---|---|--------------------------------|-------------------|
| 5.2 OD x 3.7 H in (132 OD x 94 H mm) | Zinc baseplate overmolded with black TPE, SANTOPRENE gasket | UV-Stable CYCOLOY C6200 Radome | -40°C to +85°C |

* 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.