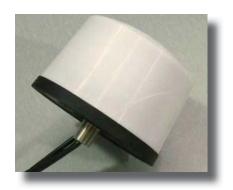
GPS ULTRA-WIDEBAND MOBILE ANTENNA

The GPSHP-UWB ultra wideband 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 WiFi broadband wireless frequencies and GPS L1 tracking
- · High rejection LNA assembly for maximum isolation properties
- Metal 3/4-inch stud mount with slotted jam nut for easier installation
- Attractive low profile, UV resistant housing for maximum overhead clearance
- IP67 compliant design with custom overmolded gasket 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



Electrical Specifications - RF Antennas

Model GPSHP-UWB	Operating Frequencies	Polarization	Nominal Impedance	Gain¹ (Nominal)	Maximum Power	VSWR
TETRA	380-430 MHz	Vertical, linear	50 ohms	1 dBi	50 watts	<2.0:1
LTE/GSM/3G/ Wi-Fi	698-2500 MHz	Vertical, linear	50 ohms	3 dBi	50 watts	<2.0:1
Wi-Fi	2.3-2.5 GHz	Vertical, Linear	50 ohms	4 dBi	50 watts	< 2.0:1

Mechanical Specifications

Dimensions	Coax (4)	Connectors
5.2" OD x 3.7 " H (132 OD x 94 H mm)	17 feet Pro-Flex Plus 195 (TETRA 380-430 MHz) 17 feet Pro-Flex Plus 195 (698-2500 MHz) 17 feet Pro-Flex Plus 195 (2.3-2.5 GHz); 17 feet RG-174/U (GPS L1)	SMA Plug (Male) on all cables. Other options available.

Mechanical & Environmental Specifications

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Radome and Baseplate Construction	Mounting Method	Operating / Storage Temperature	Ingress Protection
UV stable CYCOLOY C6200 Radome Zinc baseplate over- molded with black TPE, SANTOPRENE pasket	3/4-inch hole, 3/4-inch long (.75") zinc stud mount with dual jam nuts (included)	-40°C to +85°C	IP67*



Electrical Specifications GPS Antenna

Amplifier Gain: 26 dB +/- 3 dBic Nominal Impedance: 50 ohms Output VSWR: 1.5:1 typical DC Current: 20 mA Nominal; < 30 mA @ -40°C to +85° C DC Voltage: 3-13.5 V Noise Figure: 1.8dB Typical Filtering: > 40 dB rejection @ +/- 50 MHz from center frequency	Frequency Band: 1575.42 MHz (GPS L1)	
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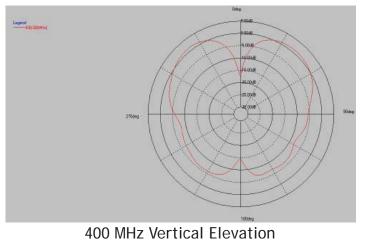
PCTEL, Inc. WEB: www.antenna.com

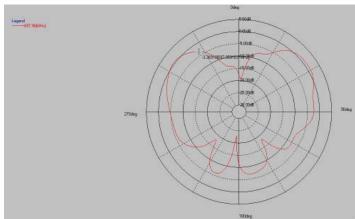
¹When properly installed on roof top or trunk surface.

 $^{^{2}}$ Measured on a 4-foot diameter ground plane. Gain value is measured at the base of the antenna (no cable loss included).

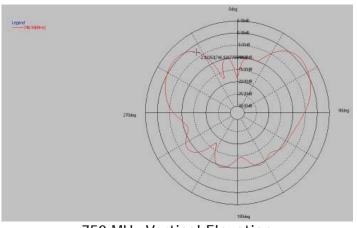
³ Other connector options available. Black radome standard. white radome option is also available (part number WGPSHP-UWB).

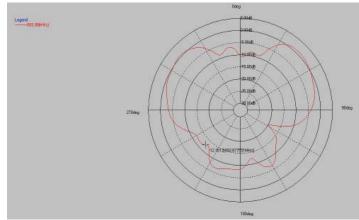
GPS & Multi-band Transit Antenna





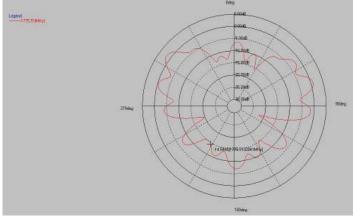
698 MHz Vertical Elevation

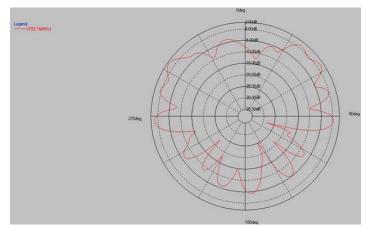




750 MHz Vertical Elevation

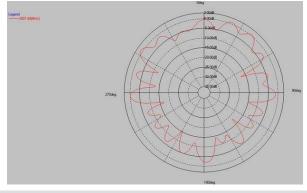
900 MHz Vertical Elevation





1700 MHz Vertical Elevation

2200 MHz Vertical Elevation



2500 MHz Vertical Elevation