



GNSS+LTE+Wi-Fi Combination Antenna

PCTEL's GNSS4GBTSM multi-band GPS antenna provides omnidirectional coverage of 4G LTE frequencies plus GPS/GLONASS tracking support. The antenna also provides Bluetooth/Wi-Fi connectivity for wireless hotspot applications and is ideal for mobile or fixed installations requiring voice and data support. Built-in GNSS tracking helps improve operational dispatch and schedule maintenance efficiencies, and the antenna's very low-profile design minimizes its exposure to theft or vandalism.



GNSS4GBTSM

Features

- Extremely low-profile housing for minimum visibility and maximum overhead clearance
- Multi-band frequency coverage and GNSS support minimize the number of antennas required on the vehicle for easier, more cost effective installations
- UV stability for long lasting outdoor operation
- Adhesive VHB tape layer supports permanent installation and provides added protection to the vehicle's surface

STANDARD CONFIGURATION

Model	Cable	Connector	Mount
GNSS4GBTSM	16.5 feet RG-174/U (GNSS) 16.5 feet RG-174/U (4G LTE) 16.5 feet RG-174/U (Wi-Fi)	Male SMA (GNSS) Male SMA (4G LTE) Male RP-SMA (Wi-Fi)	1/2-inch long, 3/4-inch OD through hole mount Mount assembly includes flat adapter shim for installations on existing larger hole diameters. Adhesive VHB tape layer included.
GNSS4GSM	16.5 feet RG-174/U (GNSS) 16.5 feet RG-174/U (4G LTE)	Male SMA (GNSS) Male SMA (4G LTE)	

ELECTRICAL SPECIFICATIONS - RF ANTENNAS

Model	Frequency Range	Nominal Gain*	Polarization	VSWR	Impedance
GNSS4GBTSM	698-960 MHz / 1710-2700 MHz	5 dBi	Linear	< 2.0	50 ohms
	2400-2483.5 MHz	3 dBi	Linear	< 2.0	50 ohms
GNSS4GSM	698-960 MHz / 1710-2700 MHz	5 dBi	Linear	< 2.0	50 ohms

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	Band Width	LNA Gain	Polarization	Gain	VSWR	Current Draw	Noise Figure	Impedance
1575.42±1 MHz / 1596 MHz / 1602 MHz	CF ± 5 MHz	28 ± 2 dB	RCHP	5 dBic (Zenith)	< 1.5	< 20 mA @ 5 V	< 2.0 dB (typical)	50 ohms

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Weight	Housing Material	Temperature Range	Relative Humidity	Ingress Protection
3.1 OD x 0.59 H in (8 x 1.5 cm)	0.45 lbs (.204 kg)	Black, UV-stable plastic	-40°C to +85°C	Up to 95%	IP67 (when installed on sealed surface)

* Gain will vary depending on frequency and method of installation. Measured on a 9-inch ground plane, not including cable attenuation.

** For other connector options, please refer to GPS Multi-Band Mobile Antenna Configurator Part Number Guide.