

GNSS + Dual LTE Combination Antenna

PCTEL's 4GDPSM multi-band GPS antenna provides omnidirectional coverage of 4G LTE frequencies plus GPS/GLONASS tracking 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.

Features

- Attractive, dome shaped low-profile housing for minimum visibility and 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
- Built-in Silicon rubber gasket for ingress protection



GNSS4GDPSM

STANDARD CONFIGURATION

Model	Elements	Cable	Connector	Mount	Housing Color
GNSS4GDPSM	One GNSS & Two LTE	One - 5 meter RG-174/U &	SMA Plug (Male)	Metal 1.57-cm OD, 1.27-cm	Black
GNSS4GDPSM-W	One GNSS & Two LTE	Two - 5 meter RG-174/U	SMA Plug (Male)	long stud mount with jam nut	White
4GDPSM	Two 4G LTE	Two - 5 meter RG-174/U	SMA Plug (Male)	Metal 1.57-cm OD, 1.27-cm	Black
4GDPSM-W	Two 4G LTE	Two - 5 meter RG-174/U	SMA Plug (Male)	long stud mount with jam nut	White

ELECTRICAL SPECIFICATIONS - GNSS ANTENNAS

Frequency Range	LNA Gain	Polarization	VSWR	Current Draw	Axial Ratio	Noise Figure	Input Impedance
1575-1610 MHz	@3VDC, 25 ± 3 dB typ @5VDC, 28 ± 3 dB typ	RHCP	< 2.0	13 ± 2mA @ 5VDC	3 dB @ f ₀ (f ₀ = 1592.5 MHz)	1.5 dB typical	50 ohms

ELECTRICAL SPECIFICATIONS - 4G LTE ANTENNAS

Model	Frequency Range	Gain* Without Ground Plane	Gain* With 2 ft. Ground Plane	Isolation (dB)	Polarization	VSWR	Impedance
GNSS4GDPSM	698-960 MHz / 1710-2700 MHz	-8.85 dBi	-7.16 dBi	20	Vertical	< 2.0	50 ohms
GNSS4GDPSM-W		-10.97 dBi	-11.8 dBi	20			
4GDPSM	698-960 MHz / 1710-2700 MHz	-6.32 dBi	- 8.64 dBi	20			
4GDPSM-W		-12.05 dBi	- 10.9 dBi	20			

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Weight	Housing Material	Temperature Range	Ingress Protection
81.5 OD x 40 H mm	4.9 oz (without GNSS) 11.5 oz (with GNSS)	UV-stable plastic	-40°C to +85°C	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.