



## Low-Profile GPS Multi-Band Antennas

PCTEL's Medallion™ GPS multi-band platform features an attractive modern design in a rugged low-profile housing. The antennas offers multi-band coverage of GSM 850, GSM 900, GSM 1800, GSM 1900, 3G, Wi-Fi/WiMAX frequencies, coupled with GPS L1 capability for outstanding value and flexibility.

### Features

- No tune, multi-band coverage: GSM 850, GSM 900, GSM 1800, GSM 1900, 3G and Wi-Fi/WiMAX frequencies, coupled with GPS L1 frequencies
- Stylish low-profile housing provides “omnidirectional” trouble-free installation while complementing most vehicular aesthetic requirements
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement



PCTMDL

### STANDARD CONFIGURATION

Model	Cable	Connector (all cables)**
PCTMDL	(1) Voice/Data: 16.5 ft RG-58/U, (1) Wi-Fi: 17 ft RG-58/U, (1) GPS L1: 17 ft RG-174/U	SMA Plug (Male)
PCTMDL-GSM	(1) Voice/Data: 16.5 ft RG-58/U, (1) GPS L1: 17 ft RG-174/U	SMA Plug (Male)

### ELECTRICAL SPECIFICATIONS - RF ANTENNAS

Model	Frequency Range	Gain* (Typical)	VSWR	Maximum Power	Nominal Impedance	Polarization
PCTMDL	806-960 MHz/1710-2170 MHz 2.3-2.6 GHz	2.8 dBi / 3.3 dBi 3.9 dBi	< 2.0:1 (all bands)	20 watts 10 watts	50 ohms	Vertical, linear
PCTMDL-GSM	806-960 MHz/1710-2170 MHz	3.5 dBiC / 3.9 dBi	< 2.0:1 (all bands)	20 watts	50 ohms	Vertical, linear

### ELECTRICAL SPECIFICATIONS - GPS ANTENNA (ALL MODELS)

Frequency Band	Operating Frequency	Element Gain	GPS Antenna Gain	DC Current	DC Voltage	Noise Figure	Grounding Protection	Filtering
1575.42 MHz (GPS L1)	Voice/Data: 806-960 MHz/1710-2170 MHz Wi-Fi: 2.3-2.6 GHz GPS L1: 1575.42 MHz	27 dB	3.5 dBic	20 mA Nominal; < 30 mA @ -40°C to +85°C	3-5.5 V	1.6 dB typical	DC grounded (both antennas)	20 dB rejection @ ± 100 MHz from center frequency

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

Dimensions	Housing Material	Storage Temperature Range	Weight	Humidity	Ingress Protection
5.1 L x 4.95 W x 1.7 D in (129.6 x 125.8 x 43.1 mm)	UV-Resistant, Black ABS	-40°C to +85°C	1.96 lbs 31.9 oz	95%	IP67***

\*Measured on a 4x4 ft ground plane at the end of a cable. \*\*Standard model. Contact customer service to request other connector options. \*\*\*When properly installed on rooftop surface, according to PCTEL installation instructions