



PCTMDL



PCTMDL Low Profile GPS Multiband Antennas

PCTEL's Medallion™ GPS Multiband platform features an attractive modern design in a rugged low profile housing. The antenna offers multiband 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, multiband 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

Electrical Specifications

Model	Operating Frequencies	Gain* (Typical)	Maximum Power
PCTMDL	Voice/Data: 806-960 MHz/1710-2170 MHz	2.8 dBi/3.3 dBi	20 watts
	Wi-Fi: 2.3-2.6 GHz	3.9 dBi	10 watts
	GPS L1: 1575.42 MHz	3.5 dBiC	-
PCTMDL-GSM	Voice/Data: 806-960 MHz/1710-2170 MHz GPS L1: 1575.42 MHz	3.9 dBi	20 watts

Electrical Specifications GPS Element

Frequency Band: 1575.42 MHz (GPS L1)
GPS Antenna Gain: 3.5 dBiC
Amplifier Gain: 27 dB
Output VSWR: 1.5:1 typical
DC Current: 20 mA Nominal; < 30 mA @ -40°C to +85°C
DC Voltage: 3-5.5 V
Noise Figure: 1.6 dB typical
Grounding Protection: DC grounded (both antennas)
Filtering: 20 dB rejection @ ± 100 MHz from center frequency

Model	Nominal Impedance	Polarization	VSWR
PCTMDL	50 ohms	Vertical, linear	< 2.0:1
PCTMDL-GSM	50 ohms	Vertical, linear	< 2.0:1

Mechanical Specifications

Model	Housing Material	Dimensions	Coax	Connectors
PCTMDL	UV Resistant, Black ABS	5.1 x 4.95 x 1.7 inches (129.6 x 125.8 x 43.1 mm)	(1) Voice/Data: 17 ft RG-58/U (1) Wi-Fi: 17 ft RG-58/U (1) GPS L1: 17 ft RG-174/U	SMA Plug (Male) standard**
PCTMDL-GSM	UV Resistant, Black ABS	5.1 x 4.95 x 1.7 inches (129.6 x 125.8 x 43.1 mm)	(1) Voice/Data: 17 ft RG-58/U (1) GPS L1: 17 ft RG-174/U	SMA Plug (Male) standard**

Environmental Specifications

Operating / Storage temperature	Weight	Humidity	Ingress Protection
-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