

Low Profile GPS Multi-band Antenna

The Medallion™ GPS Multi-Band antenna features an attractive modern design in a rugged low profile housing. This antenna offers multi-band coverage of GSM 850, GSM 900, GSM 1800, GSM 1900, 3G, WiFi/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 WiFi/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
- IP56 compliant design with custom over molded gasket provides added protection against water or dust ingress under severe environmental conditions



Electrical Specifications - RF Antennas

Model PCTMDL	Operating Frequencies	Polarization	Nominal Impedance	Gain* (Typical)	VSWR	Max. Power
Voice/Data RF Element	806-960 MHz/ 1710-2170 MHz	Vertical, linear	50 ohms	2.8dBi (806-960 MHz) / 3.3dBi (1710-2170 MHz)	< 2.0:1	20 Watts
Broadband Wireless RF Element	2.3 GHz - 2.6 GHz	Vertical, linear	50 ohms	3.9dBi	< 2.0:1	10 Watts

Mechanical Specifications

Housing Material	Dimensions	Coax (3)**	Connectors
UV resistant, Black ABS	5.1" x 4.95" x 1.7" (129.6 x 125.8 x 43.1 mm)	17 feet RG-58/U (GSM lead) 17 feet RG-58/U (WiFi/WiMAX lead) 17 feet RG-174/U (GPS lead)	SMA Plug (Male) standard*

Environmental Specifications

Operating / Storage temperature	Weight	Humidity	Fluid Shower
-40°C to +85°C	1.96 lbs 31.9 oz	95%	Water, salt, mist, windshield wiper fluid, detergent with wax: no degradation

*Measured on a 4x4 ft ground plane.

**Standard model. Contact Customer Service to request other connector options. Low loss Pro-Flex Plus 195 cable and high out-of-band rejection LNA assembly optional.

Electrical Specifications - GPS Antenna

Frequency Band: 1575.42 MHz (GPS L1)
GPS Antenna Gain: 3.5dBic
Amplifier Gain: 27dB
Nominal Impedance: 50 ohms
Output VSWR: 1.5:1 typical
DC Current: 20 mA Nominal; < 30 mA @ -40°C to +85° C
DC Voltage: 3-5.5 V
Noise Figure: 1.6dB Typical
Grounding Protection: DC grounded (both antennas)
Filtering*: 20dB rejection @ +/- 100 MHz from center frequency
Compliance: IP56 RoHS compliant