

Low Profile Multiband Antenna with GPS Antenna + Receiver

The Medallion™ PCTMDL-RCVR Multiband Antenna with GPS Antenna + Receiver features an attractive modern design in a rugged low profile housing. This antenna offers multiband coverage of GSM 850, GSM 900, GSM 1800, GSM 1900, 3G, Wi-Fi/WiMAX frequencies, coupled with GPS + Receiver 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 Antenna + Receiver Capabilities
- 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
- WAAS and EGNOS supported (GPS)

Electrical Specifications - RF Antennas

Model	Operating Frequencies	Polarization	Nominal Impedance	Gain (Typical)	VSWR	Max Power
PCTMDL-RCVR						
Voice/Data RF Element	806-960 MHz/ 1710-2170 MHz	Vertical, linear	50 ohms	2.8 dBi (806-960 MHz) / 3.3 dBi (1710-2170 MHz)	< 2.0:1	20 watts
Broadband Wireless RF Element	2.3 GHz - 2.6 GHz	Vertical, linear	50 ohms	3.9 dBi	< 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 (Wi-Fi/WiMAX lead) 17 feet USB Cable (GPS lead)	2 x SMA Plug (Male) USB (GPS)

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



PCTMDL-RCVR

Electrical Specifications - GPS Antenna + Receiver

Frequency Band: 1575.42 MHz (GPS L1)
GPS Antenna Gain: 3 dBic @ 90° -2.0 dBic @ 20°
Polarization: Right Hand Circular
Current Draw: 85 mA (max)
Channels: 16 Channels Parallel
Sensitivity: Acquisition: -146 dBm Tracking: -159 dBm
Accuracy: 2 meters (autonomous) < 1 meter (SBAS)
Time to First Fix: Cold start: 39 sec Warm start: 34 sec Hot start: 2.5 sec Reacquisition: < 1 sec
Serial Protocol: Output: NMEA 0183 Baud Rate: 4800 bps (default), user configuration up to 115 kbps Update Rate: 1 Hz NMEA Message: GGA, VTG, GSA, GSV, RMC

