

PCTEL - WHEN IT MATTERS

INDUSTRY LEADING GPS MULTIBAND SOLUTIONS FOR FLEET MANAGEMENT

FEATURING

- Multiple technologies and frequency band capabilities in a single housing
- UHF/Tetra, 4G LTE, 3G Cellular, GSM, and WiFi 802.11 a, b/g, n bands
- Optimized coverage and carrier grade efficiency
- Best in class MIMO technology
- High rejection GPS to mitigate interference
- Easy to install options: single hole permanent, tape, magnet, or covert dash mounting
- Rugged, aesthetically pleasing designs
- Flexible platforms for a broad range of technical budget requirements
- Smart antennas with integrated receivers



FEATURED NEW PRODUCTS

DUAL LTE, DUAL 802.11N GPS MULTIBAND ANTENNAS



GPSHPDLTE/MIMO



GPSHPDLTEMIMO-SF

FEATURES

- High rejection GPS LNA for optimal integration in multiband installations and dense RF environments
- No tune multiband coverage: dual 4G LTE, dual 802.11n WiFi, and GPS L1 frequencies
- Optimally positioned RF elements for MIMO system support, enhanced coverage and data throughput
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit for easier installation
- Rugged, low profile housings for maximum overhead clearance and long lasting outdoor operation
- IP67* compliant design provides maximum protection against water or dust ingress
- High performance, low loss cable and high quality connectors for optimal RF system efficiency
- UV resistant black or white housing options

Model	Dimensions	Mounting Method	Radome Material	Gasket Design & Construction
GPSHPDLTE/MIMO	11 x 3 x 4 inches (279.4 x 76.2 x 101.6 mm)	3/4-inch hole, 3/4 inch long (.75") zinc stud mount with jam nut	UV Resistant, Black or White	Countour matching, conformable, thermoplastic-elastomer gasket designed to seal between radome and baseplate. Gasket flexes and conforms to contoured surfaces. Baseplate has a 3M VHB mounting pad for anti-rotation.
GPSHPDLTEMIMO-SF	5.2 OD x 3.4 H inches (132 x 94 mm)	1-inch hole, 3/4-inch long (.75") zinc stud mount with jam nut		

Element	Frequency Range	VSWR**	Gain**	Cable	Connector	Out-of-Band Rejection
4G LTE (2)	698-960 MHz 1710-2170 MHz	< 2.0:1	2.5 dBi	17-foot Pro-Flex Plus 195 (2 each)	MSMA	N/A
802.11n Dual Band WiFi (2)	2.4-2.5 GHz 4.9-5.9 GHz	< 2.0:1	3-4 dBi	17-foot Pro-Flex Plus 195 (2 each)	RP-MSMA	N/A
GPS L1 (1)	1575.42 MHz	1.5:1, typical	26 dB ± 3 dBic	17-foot RG-174/U	MSMA	> 40 dB rejection @ ± 150 MHz from center frequency

* When installed per the manufacturer's installation instructions on the vehicle's rooftop.

** Measured with a 1-foot cable assembly.

APPLICATIONS

- Enterprise Commercial Fleets
- Public Safety and EMS Vehicles
- Railroad Antenna Farms
- Heavy Equipment Asset Tracking
- Trucking
- Mass Transit
- Public Service Fleets
- Trailer Monitoring
- Asset Tracking



OTHER PCTEL GPS MULTIBAND PLATFORMS



GPSHP

- Heavy Duty, IP67*
- 698 MHz-6 GHz + GPS L1
- Dual-band WiFi MIMO option
- LNA with superior out-of-band rejection



GPSHP-UWB

- 380-430 MHz TETRA, 698 MHz-2.5 GHz, 2.3-2.5 GHz + GPS L1
- Heavy Duty, IP67*
- LNA with superior out-of-band rejection



MEDALLION™

- 806-960 MHz / 1710-2170 MHz, 2.3-3.6 GHz + GPS L1
- Heavy Duty, IP67*
- Low profile permanent mount



MAX-MATICS

- GPS L1 + NMO interface for mobile antenna
- LNA with superior out-of-band rejection
- Permanent, magnet or mirror mount



COV-GPMB-TM

- 4G LTE 698-960 MHz, 1710-2170 MHz, 2.4/5 GHz WiFi and GPS L1
- Covert tape mount installations (dash or cab mount)
- IP67* ingress protection



GPSGSM

- Cellular/PCS + GPS L1
- 3/4" or 5/8" OD hole installations
- Permanent or magnetic mount
- European 3G models available

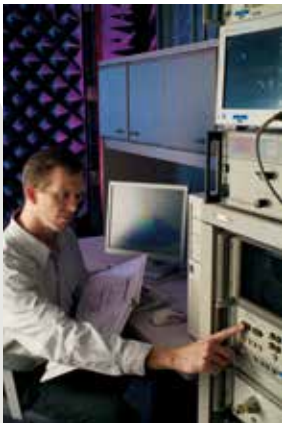
* When installed per the manufacturer's installation instructions on the vehicle's rooftop.

PRODUCT SELECTION MATRIX

Product Series comprise various models. Not all models offer all available features. For technical details, refer to PCTEL catalog.	Features							Applications			
	Multiband GPS Combination	WiFi, 4G LTE, WiMAX, TETRA Mobile Data Capable	MIMO (Multiple Input, Multiple Output) Capable	Smart Antenna Model(s) with Integrated Receiver	High Out-of-Band Rejection (Use in Proximity of Transmitting Antennas or High RF Noise Areas)	High Gain (Use in Scenarios Involving Extended Cable Runs)	Various Mounting Options: Permanent (P), Magnetic (MG) Glass (G), Tape (T), Multiple (MUL)	Multiband High Performance (Public Safety, Enterprise, Mass Transit)	Covert, Low Profile, Cost Sensitive (Public Safety, Trucking)	Security, Public Safety, Defense	Heavy Equipment (Agriculture, Mining, Rail, Fracking)
GPSHPDLTE Models	√	√	√		√	√	MUL	√		√	√
GPSHP Models	√	√	√		√	√	MUL	√		√	√
GPS Plus Models	√	√			√	√	MUL	√		√	
PCTMDL Models	√	√			√		P	√		√	√
GPSGSM Models	√						MUL	√		◆	
3947D	√	√					MUL	√	√	√	
PCTMDL-RCVR	√	√		√ (USB)			P	√		√	√
COV-GPMB-TM	√	√					T	√	√	√	

OUR CAPABILITIES

- Manufacturing locations in the USA and Asia
- Top of the line Stargate 24 anechoic antenna test chambers
- The latest in electrical simulation and mechanical design software tools
- In-house environmental test facilities



Optimal Solution √ Good Solution ◆ Please refer to PCTEL Antenna Products Catalog for detailed model specifications.



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