



# FLEET MANAGEMENT AND ASSET TRACKING GPS SOLUTIONS

## OUR OFFERING

- High rejection mitigation for high interference applications
- Iridium, Globalstar, INMARSAT, GLONASS and GPS frequencies (GPS L1, GPS L2, GPS L5)
- Smart antennas with integrated receivers
- Circular right hand or left hand polarizations
- Precision tuned helical and patch designs optimized for custom enclosures
- Single band, multi-band, MIMO (Multiple Input, Multiple Output) and diversity models
- Permanent, magnetic, tape, glass, embedded and portable man-pack mount configurations
- Rugged, aesthetically pleasing designs
- Various product platforms to accommodate diverse budget and performance requirements

## 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



# APPLICATIONS

- Fleet Management / Tracking
- Public Safety
- Railroad (Positive Train Control)
- Telematics
- Agriculture
- Utilities
- Commercial Delivery
- Mass Transit
- Military & Defense
- Aviation
- Timing Synchronization



## MULTI-BAND GPS MOBILE ANTENNAS



### MAX-BAND

- Heavy Duty, IP67\*
- 698 MHz-6 GHz + GPS
- WiFi MIMO option
- Superior out-of-band rejection



### GPSHP-UWB

- 380-430 MHz TETRA, 698 MHz-2.5 GHz, 2.3-2.56 Hz + GPS
- Heavy Duty, 1P67\*
- Superior out-of-band rejection



### MEDALLION™

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



### MAX-MATICS

- Heavy Duty, IP56\*
- Mobile antenna interface (up to 6 GHz)
- LNA with superior out-of-band rejection
- Permanent, magnet or mirror mount



### WI-SYS 3947D

- 824-960 MHz / 1710-2200 MHz, 2.4-2.5 GHz + GPS
- Covert dashboard installations (inside vehicle)
- High gain active antenna
- Flexible housing



### GPSGSM

- Cellular/PCS + GPS
- Value line model
- 3/4" or 5/8" OD hole installations
- Permanent or magnetic mount

\*When properly installed on a vehicle's rooftop

## SMART ANTENNAS WITH INTEGRATED GPS RECEIVERS

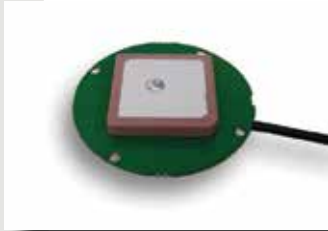


- Rugged, low profile housings.
- Embedded, magnetic or permanent mount options
- USB, CMOS, RS232 and RS422 digital interfaces
- Custom smart reporting capability for specific radio manufacturers
- Single band GPS, GPS multi-band combination and timing reference antenna designs

## HIGH REJECTION ANTENNAS



- Low profile housings
- Permanent, magnetic, glass and tape mount options
- Embedded antenna designs
- Superior out-of-band rejection properties
- Low noise amplifiers
- High gain models
- Various connector options
- OEM grade and value line platforms to fit various budget requirements



## SPECIALIZED GNSS SATELLITE ANTENNAS



- Synchronized timing reference antennas
- Airborne (DO-160 tested) designs
- Precision Wide Area Augmentation (WAAS) for aviation
- Globalstar, Iridium and INMARSAT antennas
- GPS L1, L2, L5, GLONASS, Galileo
- Passive, embedded and housed solutions

# PRODUCT SELECTION MATRIX

Product Series comprise various models. Not all models offer all available features. For technical details, refer to PCTEL catalog.	Features										Applications						
	Multi-Band GPS Combination	WiFi, 4G LTE, WiMAX, TETRA Mobile Data Capable	MIMO (Multiple Input, Multiple Output) Capable	Smart Antenna Model(s) with Integrated Receiver	Low Noise Figure (Use in Poor Signal Reception Areas)	High Out-of-Band Rejection (Use in Proximity of Transmitting Antennas or High RF Noise Areas)	Low Current Draw (Use with Battery Operated Equipment)	High Gain (Use in Scenarios Involving Extended Cable Runs)	Mounting Method: Permanent (P), Magnetic (MG) Glass (G), Multiple (MUL), Value Line (to address low budget constraints)	Fleet Management and Asset Tracking	Signal Timing Synchronization	Covert	Security, Public Safety, Defense	Personal Navigation	Precision Agriculture (Heavy Duty)	Backpack / Portable Devices (< 8 mA current draw)	Airborne Navigation
GPSHP Models	√	√	√			√	√	P	√			√		√			
GPSP Models	√	√				√	√	MUL	√			√		√			
PCTMDL Models	√	√		√		√		P	√			√		√			
GPSTB Models	√					√		P	√			√	◆	√			
GPSQB Models	√	√				√		P	√			√	◆	√			
GPSGSM Models	√							MUL	√	◆		◆	◆				
32XX Models						√	√	P	√			√		√			
AGPSHP Models						√	√	MG	√			√	◆	√			
AGPS26MM								MUL	√	◆		◆	√				
AGPS26GM						√		G	√		√	√	◆	√			
GPS-TMG-(HR) Models				√		√	√	P		√		√					
127X Models						√	√	P		◆		√		√		√	
121X Models						√	√	P		◆		√		√		√	
GPS-NMO Models								MUL	√	√	◆	√	◆				
1357D								N/A	√	√		√	√				
1857D								N/A	√	√		√	√				
391XD-(HR) Models					√	√	√	MUL	√	√		◆	√	√	√	√	
3947D	√	√						MUL	√	◆		√	√				
395XD Models					√	√	√	N/A	√	√		√	√			√	
396XD Models					√	√		N/A	√	√		√	√				
397XD-(HR)Models					√	√	√	P (Flat)	√	◆	◆	√	◆	√	√		
397XD-(HR)-DH Models					√	√	√	P (Cone)	√	◆	√	◆		◆	√		
3997D							√	P	√	√		◆	√			◆	
50X2D Models with Integrated Receiver				√ (USB, RS232)			√	MUL		√		√	◆	√	◆		
PCTMDL-RCVR	√	√		√ (USB)				P		√		√		√			
GPS-TMG-RCVR				√ (RS232)		√		P			√	◆					

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

N/A: embedded antenna models are designed for customized enclosures and can be adapted to meet various mounting requirements.

