



# Government, Defense and Military Antennas



PCTEL is a leading global supplier of advanced antenna systems for military applications. For over a decade, our experienced and highly trained development team has delivered ruggedized, precision, and reliable antennas for leading organizations including Government Prime and Sub-prime Contractors, the US Armed Forces, US DoD, FAA, and NATO. Our antennas are utilized in a wide variety of defense and precision applications including unmanned airborne vehicles (UAVs), electronic IED countermeasures, missile and vehicle telemetry, SATCOM, asset tracking, airborne, and portable ground and satellite communications.

PCTEL & legacy Micro Pulse antennas have been used by US Army, Air Force, Navy & Marine Corps, Department of Interior & NATO.

## PRECISION AVIATION ANTENNAS

Specifically designed to meet the demanding standards necessary for worldwide WAAS aviation operations, model 2225NW features both advanced spiral technology and a self-complementary element structure.

Overall, PCTEL's Precision Aviation Antennas provide:

- L1/L2 & L5 Multiband Coverage
- High Out-of-Band Rejection
- Design specifications for:
  - » Wide Area Augmentation System (WAAS)
  - » Multi-functional Satellite Augmentation System (MSAS)
  - » Geosynchronous Augmented Navigation System (GAGAN)



Wide Area Augmentation System (WAAS) GPS Ground Reference Station Antenna

## AIRBORNE ANTENNAS

The PCTEL 12100 and 12700 airborne series are robust, rigorously tested and environmentally sealed units suitable for a wide variety of GPS applications. They are ideal for vehicle tracking, marine or airborne navigation installations requiring maximum security and durability.

Other antennas in PCTEL's airborne product line provide:

- Qualifications for Certain DO-160
- Arinc 743 specifications
- Coverage for UAV & Specific Airframe Applications
- Specialty GPS Products



## MUNITIONS GUIDANCE ANTENNAS

PCTEL's Munitions Guidance Antennas are used to control missiles and characteristically, are:

- Highly Ruggedized
- Designed to cover L1/L2 Multiband frequencies
- Integrated and Conformal Antennas



Raytheon/BAE M982  
Excalibur GPS L1L2 LRIP



Raytheon HARM GPS L1/L2



Paveway GPS:  
5,000 deployed



## PORTABLE SATCOM ANTENNAS

PCTEL Satcom products cover GPS and the frequency bands for fleet management applications that include:

- Inmarsat TX/RX, Globalstar, Iridium
- Customization for Portable Laptop & Radio Communications
- Custom quadrifilar helix antennas with rotating joint (pictured at right)



Rockwell Collins PLGR: 250,000  
L1/L2 GPS deployed over 12 years

## SATCOM & ASSET TRACKING ANTENNAS

PCTEL designs Satcom and Asset Tracking antennas to provide maximum performance and versatility for telematics applications for fleet monitoring and asset tracking. Antennas in this line include:

- Customized Embedded & Housed Antennas
- GPS, L1/L2, Inmarsat TX/RX, Globalstar, Iridium frequency coverage
- Wi-Sys Asset Tracking Products
- GPS Timing Antennas



## Custom, Application-Specific, Military Antenna Designs

PCTEL, Inc. is a customer-focused company dedicating its research and development to create high performance antenna products to meet market needs.

In the Commercial market segment our products provide satellite communication links to monitor hundreds of thousands of heavy-duty trucks on a daily basis. In the Government and Military sectors our expertise has been chosen by several leading DoD suppliers as well as most branches of the U.S. Armed Forces and NATO allies to develop and manufacture specialty GPS and Satcom antennas for variety of applications. PCTEL is also a leading supplier of GPS network timing antennas for the wireless communications market.

Contact PCTEL for your custom military antenna needs.

email: [government.military@pctel.com](mailto:government.military@pctel.com)  
phone: (530) 263-1140



For more information on PCTEL's military antenna products, visit [www.pctel.com](http://www.pctel.com)

