



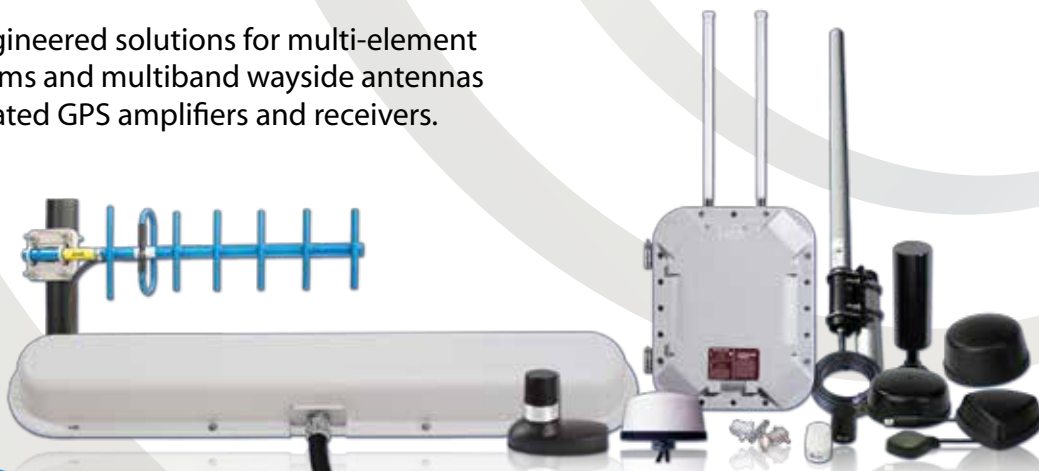
ANTENNA SOLUTIONS FOR POSITIVE TRAIN CONTROL AND RAILROAD MANAGEMENT

OUR OFFERING

- PCTEL has an extensive portfolio of products for rolling stock and wayside applications
- Rugged directional and omnidirectional antennas for harsh environments including high vibration and extreme temperatures
- Full line of wireless connectivity solutions including cable assemblies, enclosures, and surge protection.
- Custom engineered solutions for multi-element antenna farms and multiband wayside antennas with integrated GPS amplifiers and receivers.

OUR CAPABILITIES

- Manufacturing locations in the USA and Asia
- Top of the line SATIMO SG 24 near-field antenna test ranges with anechoic chambers
- High-fidelity 3D electromagnetic simulation and mechanical design software tools
- In-house environmental test facilities
- Custom design and project management services



APPLICATIONS

- Positive Train Control
- Railway Rolling Stock
- Wayside Signaling
- Dark Territory Waysides
- Asset Tracking
- Voice and Data Access

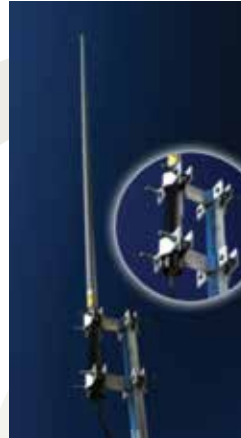


HIGH PERFORMANCE ANTENNA PRODUCTS



BLUEWAVE SERIES

- VHF, 220MHz, UHF, and 900MHz
- Manufactured from aircraft quality aluminum for optimal strength
- Anodized or powder-coated for corrosion resistance
- Fully integrated cable jumper
- Deployed in the harshest environments on this planet



BOA SERIES OMNIS

- BOA Omnis for Wayside and Base Station Applications
- Carrier Grade
- 160MHz, 220MHz, and 900MHz
- Qualified by several railroads for PTC, voice communications, and signaling applications



GPSHP SERIES

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



ASP "FIRECRACKER" SERIES

- 160MHz or 220MHz
- Industry standard mounting configuration
- Rugged fully welded design
- Powder-coated, stainless steel construction



MEDALLION™

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



GPS-TMG-HR

- High Rejection GPS Timing Antennas
- Designed for use in congested sites
- Equipped with high rejection narrow-band filtering to mitigate interference
- Provides 65 dB rejection of frequencies adjacent to L1 GPS
- Maintains all features of PCTEL GPS timing reference platform

*When properly installed on a vehicle's rooftop

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