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

GPSHP SERIES
- Heavy Duty, IP67*
- 698 MHz-6 GHz + GPS
- WiFi MIMO option
- 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

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

ASP “FIRECRACKER” SERIES
- 160MHz or 220MHz
- Industry standard mounting configuration
- Rugged fully welded design
- Powder-coated, stainless steel construction

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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