

PCTEL® Antennas for Wayside and Base Station Applications



PCTEL provides high performance, purpose-built antennas that elevate RF performance for the rail industry.

- PCTEL customization delivers exceptional performance utilizing the latest cellular, WiFi, Bluetooth®, LMR, LoRa, ISM, IoT, and GPS/GNSS technologies.
- PCTEL antenna mounts and accessories are also available.
- Comprehensive kitting services through ARMS provide fast, reliable field installations.
- PCTEL test and measurement services are available to help railroads plan, deploy, and optimize highly effective wireless networks.



High Rejection Antennas With Enhanced Narrow Band Filtering

GPS-TMG-HR-26 timing reference antennas feature a 26-dB amplifier and narrow band, high rejection filtering specifically designed to support trouble-free deployments in congested cell-site applications with severe interference. They provide superior out-of-band rejection and lower elevation pattern. Custom models and pipe mounting hardware are also available.



Multiband LTE MIMO LTE (x2) Antennas, GPS, WiFi (optional)

Trooper™ antennas provide optimal 4G LTE and dual-band 802.11ac WiFi coverage in a low-profile housing. PCTEL's unique, high rejection GPS/GLONASS technology is designed for optimal performance and support of carrier networks. UV-resistant, black or white options available.



LTE Cellular Broadband Omnidirectional Antennas With Integrated GPS Unit

The LCMGPS-PTNF-4LTE-UP multiband antenna achieves superior bandwidth performance. The high-rejection GPS LNA technology is easy to install and offers maximum durability and performance. Multiband coverage includes 700 MHz LTE, 800 MHz Cellular/SMR, 900 MHz GSM/ISM, 1700-2200 MHz GSM/PCS, 3G/4G LTE, AWS, 2.4 GHz WiFi, and 2.5-2.7 GHz WiMAX broadband wireless frequencies. Available with dual-carrier compatibility.



800/900 MHz Fiberglass Base Station Omnidirectional Antennas

The MFB 800/900 MHz series are base matched, half wave antennas encased in heavy-duty fiberglass radomes. All models are DC-grounded and shippable via UPS. Antennas include a white, UV-resistant pultruded fiberglass radome and a thick-walled aluminum mounting base. Available in unity, 3-dB, 5-dB, and 7-dB models with a temperature range of -40°C to +85°C.



Solving Complex Wireless Challenges

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.

For more information about PCTEL precision antennas, contact your sales representative or visit pctel.com/antenna-products

PCTEL, Inc.

T: +1 630 372 6800 | pctel.com