Antenna Systems and RF Optimization Solutions for High Speed FirstNet Broadband Networks

PCTEL Offers

- Market share leadership and expertise in antenna technology for first responder applications
- Preferred vendor status among the leading global Original Equipment Manufacturers of Cellular routing equipment and Land Mobile Radios
- Complete portfolio of antenna, cabling and accessory products for mission critical FirstNet networks
- RF Optimization services for multi-band Cellular/LMR convergence installations
- Customization flexibility for installation efficiency and quality control
- Top of the line Satimo SG 24 near-field antenna test chambers with anechoic chambers
- In-house environmental test facilities
- Manufacturing locations in the U.S.A. and Asia

Courtesy of Los Angeles Sheriff’s Dept
OUR OPTIMIZATION SERVICES

- Antenna system design for multiple co-located radio configurations
- Evaluation of installation and environmental challenges
- Development of detailed platform model for electro-magnetic (EM) simulation
- Layout design to maximum antenna performance while mitigating interference
- System level design verification and analysis
- On platform test and measurement validation

PRODUCTS FOR FIRSTNET

TROOPER™ MULTI-BAND ANTENNAS

- High efficiency multi-band platforms
- Multi-port 4G LTE optimized designs
- 802.11ac MIMO for dual band 2.4/5 GHz Wi-Fi connectivity
- Proprietary high rejection Global Navigation Satellite System technology for reliable precision tracking
- Narrow footprint fits perfectly among ridges of leading public safety sports utility vehicles
- Black or white low profile housing options
- Ruggedized construction with sealed ingress protection properties*

WIDEBAND, NO TUNE ANTENNAS

- NMO mount compatible
- Wideband “no-field-tune” properties
- Ground plane independent designs
- Covert, glass mount designs
- Low profile “whip-less” models
- Optional Stainless steel spring for maximum vibration resistance and impact shock absorption

ACCESSORY PRODUCTS

- Coax cable of various sizes
- Customized cable assemblies with multiple connector options
- Color coding for installation accuracy
- Surge suppression and diplexers
- Wide variety of permanent and magnetic mobile mount options

© 2017 PCTEL, Inc. All Rights Reserved. Product prices, materials and specifications are subject to change without notice. Printed in the USA.

* When installed per the manufacturer’s installation instructions on the vehicle’s rooftop.