



PCTEL – PERFORMANCE CRITICAL

IoT & Machine to Machine Antenna and Site Solutions



PCTEL Offers

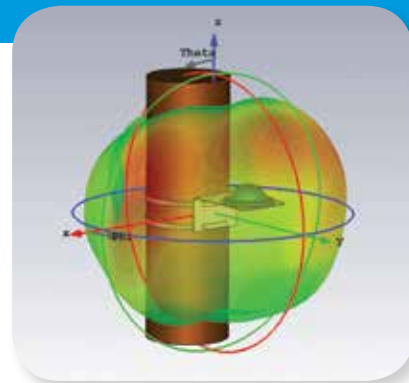
- Complete portfolio of antenna, cabling, and accessory products for specialized Internet of Things (IoT) and machine to machine (M2M) applications
- In-house antenna design with testing facilities in the United States and Asia
- Embedded systems design and integration expertise
- RF optimization services for multi-band cellular and Wi-Fi installations
- Global channel reach with sales locations around the world

Why Choose PCTEL

- Reputation for leadership in antenna technology for IoT applications
- Preferred vendor status among the leading global original equipment manufacturers of Wi-Fi and cellular routing equipment
- Global manufacturing with locations in the United States and Asia

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 IoT Application

INDUSTRIAL PROCESS AUTOMATION

- Rugged antennas designed to withstand high vibration and extreme temperatures
- Full line of wireless connectivity solutions including mounting brackets, cable, and surge protection products
- Custom engineered antenna solutions for wireless sensor, gateway, and access point housings



ASSET TRACKING AND MONITORING

- In-building and outdoor antenna solutions
- 802.11 (a, b, g, n, ac), 4G LTE, 900 MHz ISM
- Wi-Fi, RFID, and cellular applications
- Outstanding in-band and out-of-band isolation for increased throughput
- Aesthetically pleasing, low-profile housings
- Various installation mounting options



UTILITY SMART GRIDS

- Directional and omnidirectional antennas
- Rugged outdoor rated construction
- Base station yagis, omnis, and panels
- Low-profile multi-band options
- Custom embedded antenna design
- UHF, 700 MHz A Block, cellular 4G LTE, Wi-Fi
- GNSS capability
- Heavy-duty mounting bracket portfolio



PCTEL – ANTENNA SOLUTIONS FOR IoT AND M2M

TRANSIT SYSTEMS

- Low-profile multi-band options
- UHF, cellular 4G LTE, and Wi-Fi coverage
- Rugged outdoor rated construction
- Custom embedded antenna design
- GNSS capability
- Ground plane independent antenna options
- Vandal-proof mounting accessories



VIDEO SURVEILLANCE

- Multi-band 4G LTE and 802.11ac MIMO antennas
- Outstanding in-band and out-of-band isolation for increased data throughput
- Rugged outdoor rated construction
- Custom embedded antenna designs
- GNSS capability
- Covert antenna options
- Vandal-proof mounting accessories



VENDING AND BANKING

- Multi-band 4G LTE and 802.11ac MIMO
- Rugged outdoor rated construction
- Permanent or magnetic base mounting options for temporary installations
- Custom cable assembly kit offering
- GNSS capability
- Covert antenna alternatives
- Vandal-proof mounting accessories
- Housing color customization for special M2M projects



PCTEL – ANTENNA SOLUTIONS FOR IoT AND M2M

SMALL CELLS AND DAS

- Embedded and external solutions
- Multi-band antennas
- High rejection GPS/GNSS timing
- PIM-rated options



RF Accessories

- Coax cable of various sizes
- Customized cable assemblies with multiple connector options
- Surge suppression and diplexers
- Wide variety of mounting bracket options



Capabilities

- Custom antenna design and optimization
- Antenna farm design
- Embedded systems design and integration
- Sophisticated RF modeling and testing
- Top of the line Satimo SG 24 near-field antenna test chambers with anechoic chambers
- In-house environmental testing

