Wireless Antenna Solutions

**AMI/AMR Antennas & Isolation Couplers**
High performance wrap-around antennas and isolation couplers for electric, gas and water meters. Available in different styles. WPI engineering team specializes in optimizing antenna integration to help achieve TRP/TIS and FCC requirements.

**Access Point Infrastructure**
For Access Points and Repeater type applications requiring a True-Omnidirectional coverage pattern with ample Peak Gain and Radiation Efficiency. Available in different connector and mounting styles.

**MIMO Antennas**
2x2 and 3x3 MIMO antennas with Pattern & Polarization Diversity for both terminal units and repeater systems. These are industrial grade and designed to withstand harsh environments.

**Wall and Ceiling Mount**
Broadband wall and ceiling mount antennas that are surface independent. These can be mounted to metallic or non-metallic surfaces without altering the performance. These work at LTE, 4G, 3G, ISM, GPS, Wi-Fi & WiMAX bands.

**Low Profile Body Mount**
High performance and low profile body mount, industrial grade antennas. Available in multiple RF Bands. They are extremely efficient for their compact size. Can be configured with different cable/connector styles & lengths.

**Stubby Whips & Dipoles**
Stubby Antennas built on the framework of Whips and Dipoles. The gains of these antennas have been optimized for delivering optimal efficiency.

**4G/LTE/3G/ISM Embedded SMD Style**
SMD style ultra wide-band antenna covering frequencies from 600 to 2700 MHz. This patented Micro-Hepta design is specifically designed for M2M applications to reduce the antenna design and integration effort on the clients’ part.

**Miniaturized Multi-band Embedded**
Available in Flex, Stamped Metal, Plastic and Chip styles. These are an excellent choice for applications with very tight space constraints and where low cost solutions are desired.

**Body Mount / Mag Mount Vandal Resistant**
Extremely durable and conformal multi band antennas that are vandal resistant. Available in both body mount and mag mount styles. IK rated.
Wireless Antenna Solutions

GPS/GLONASS Patches and Active Modules
- High Performance GPS/GLONASS Patch antennas and GPS/GLONASS + LNAs + Saw Filter/Patch antenna modules in a variety of size options ranging from 10X10mm to 25X25mm.

High Gain Omni Directional
- High Gain Pole Mount Access Point antennas for Smart City and Infrastructure applications.

CUSTOM DESIGN SERVICES
- Very Fast Design Cycle
- Antennas can be designed to operate in any frequency band/bands for your specific application, performance and cost requirements.

R&D Laboratory

- Onsite antenna engineering laboratory with technically advanced RF/Microwave test & measurement equipment.
- 3D near-field and far-field, super-fast and fully automated antenna radiation characterization electromagnetic systems.
- Experienced engineering staff that has designed antennas for various applications ranging from military to consumer wireless.
- Precise mechanical tools that aid in designing and manufacturing antennas in various manufacturing technologies, such as, Ceramics, Stamped Metals, Plastics, LTCC, Flex PCB and more.
- Offshore manufacturing relationships and partnerships with reputed factories in Asia for over 40 years.
- Antennas and antenna systems that operate in several frequency bands such as: 4G/LTE, 5G, 3G, LoRa, ISM Band, WiFi, Zigbee, Bluetooth, RFID, NFC, GPS, GLONASS, UWB can be designed & tested.
- Regulatory testing capability that ensures that the antennas designed comply with safety and performance standards set by FCC, PTCRB and others.

Dan Paulson
Wireless Business Unit Manager
dpaulson@worldproducts.com
Direct Dial: 707.931.7636
Mobile: 707.815.8117

Bruce Bishop
Director of Wireless Product Engineering
bbishop@worldproducts.com
Direct Dial: 707.931.7612
Mobile: 707.320.3639

Cong Truong
Mechanical & RF Test Engineer
ctruong@worldproducts.com
Direct Dial: 707.931.7607