

# 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**

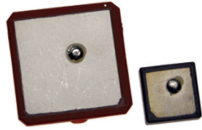
Extremely durable and conformal multi band antennas that are vandal resistant. Available in both body mount and mag mount styles. IK rated.

## Product Development and Test Services

Compliant with Directive 2002/95/EC of the European parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive). A maximum concentration value of 0.1% by weight in homogeneous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0.01% weight in homogeneous materials for cadmium.



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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

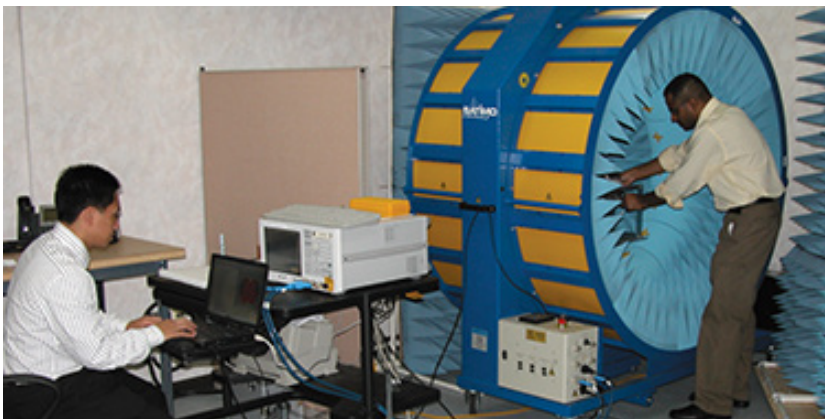
High Gain Pole Mount Access Point antennas for Smart City and Infrastructure applications.

## 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, Wi-Fi, 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.



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