

Consumer Wireless • Automotive • Industrial • Infrastructure • Test Services • Custom Product Development

Antenna Short Form Catalog



WP WIRELESS
PIONEERING TECHNOLOGY
Enabling Your First to Market Vision
 A Division of **World Products Inc.**
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About WP Wireless

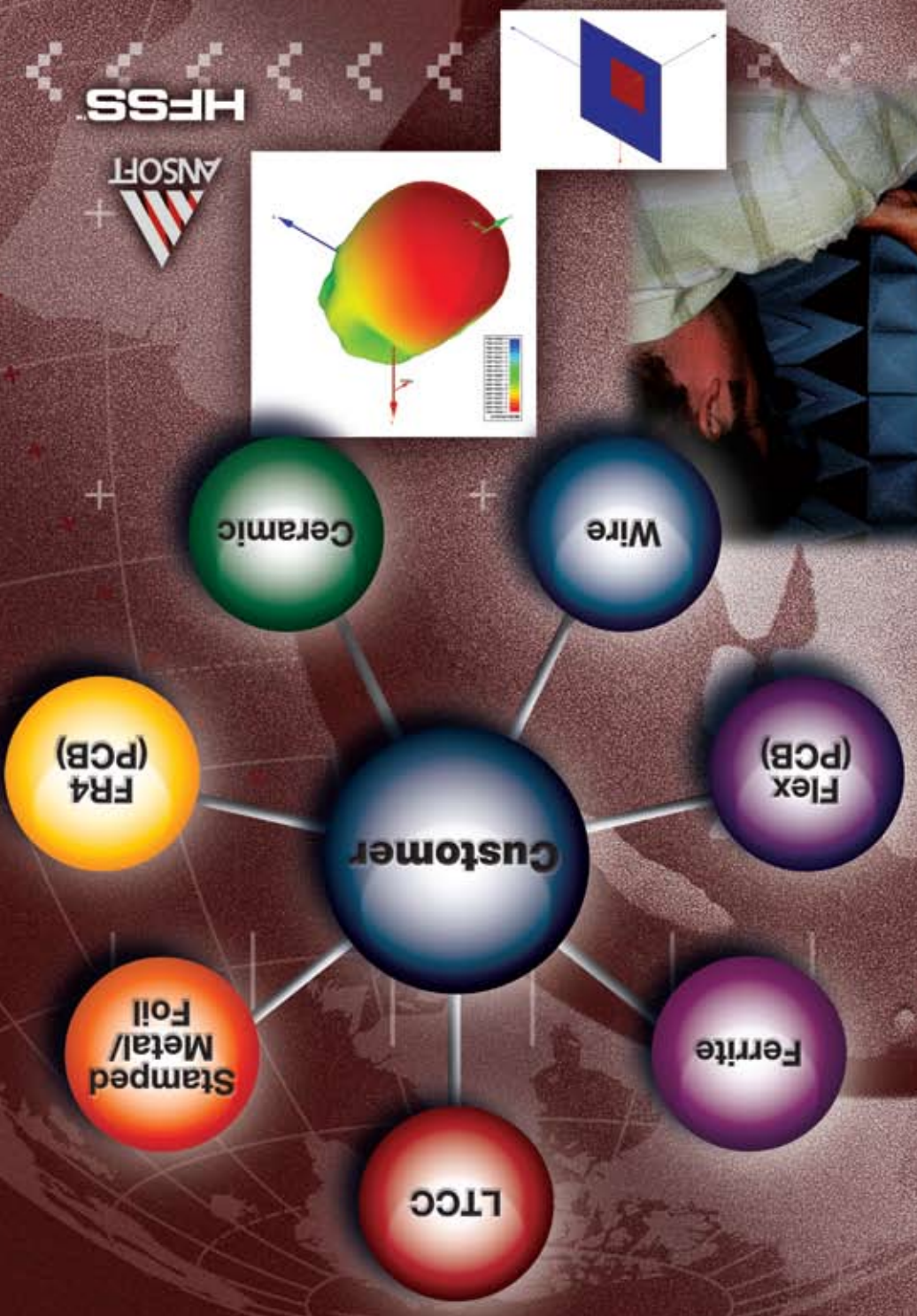
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Our WP Wireless product design and test facilities are located at our headquarters just outside of San Francisco, CA. Along with industry standard CAD simulation tools such as Ansoft HFSS and Agilent Technologies RF test equipment, WP Wireless is able to offer CTIA- and FCC-approved lab testing through our partnership with Cetecon's test facilities nearby in Milpitas, CA.

Custom Product Development and Test Services

WP Wireless™, a division of World Products Inc., is a developer and manufacturer of antenna solutions serving handheld consumer wireless, industrial wireless, AMR and automotive/telematic markets. Most antenna vendors are technology-centric, whereas WP Wireless innovates different technologies around the core value of customer satisfaction, which truly enables our customers' first-to-market vision. Frost and Sullivan awarded their prestigious Customer Service Innovation Award to WP Wireless to acknowledge its high standards in customer service, state-of-the-art technology and superior technical support. Our manufacturing sites are ISO9000, ISO14001 and, where applicable, TS16949 certified, and are located in the Asia-Pacific region to ensure cost competitiveness. WP Wireless is the preferred antenna partner for leading OEM's and ODM's globally. In addition to our experienced, direct technical sales and applications engineering team, customers around the globe are served by local WP Wireless-authorized technical sales representatives, field applications engineers and franchised distributors that are trained to support our products and services with the same commitment to customer service that our customers have come to expect of WP Wireless.

What differentiates us?





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Wireless Infrastructure Antennas

WP Wireless™ introduced this patented, compact stub-loaded helix circular polarized antenna as an innovative solution to multi-path and in-building penetration issues often found in urban Wi-Fi Hot Spots or VoIP infrastructure applications. With our WPANTCP Series antennas, typical system throughput data rates have been shown to improve by over 60% in multi-path environments over equivalent gain, linearly polarized antennas.

WPANTCP Series

The WPANTCP Series antenna family offers a range of beam widths and gains from 10dBi to 13dBi and versions suitable for 2.4GHz ISM band applications as well as Wi-Max and 5GHz systems. Additional frequencies are planned.

WPIANTIND Series

The newly released series of antenna is suitable for external or internal building mount applications requiring omni-directional coverage, such as Automated Meter Reader installations operating at a range of different frequencies including; 2.4GHz, 900MHz, 850MHz, 1800MHz, 1900MHz or 2.1GHz.

WPIANTPNL Series

This series of flat panel antenna is available on application for custom requirements covering applications such as cellular repeaters.

Industrial Wireless and Automated Meter Reader (AMR)

WP Wireless™ developed this Under Glass Mount (UGM) series antenna for applications in Automated Meter Reader (AMR) systems, particularly electricity meters. The innovative WPIRAD series universal antenna radome incorporates patent-pending features for ease of installation and correct antenna polarization.

WPIANTUGM Series Industrial Antennas

The WPIANTUGM series offers compatibility with cellular AMR systems operating at 850/1900MHz, 900/1800MHz, 900MHz ISM band and the popular 2.4GHz ISM bands.

The 2.4GHz version is specifically suited to mesh networking topologies such as Zigbee™ and Bluetooth™ and WI-FI.

Custom frequencies are available on application.

WPIANTFR4 Flexible PCB Series

This family offers the flexibility of a bare PCB antenna and cable/connector assembly without the radome for lower profile AMR and industrial wireless applications.

Automotive/Telematics

WP Wireless™ has created an innovative range of magnetic, glass and body-mounted antennas for a variety of vehicular cellular, navigational, security, telematic, and fleet tracking applications.

WPANTAUTM Series

This family offers ease of magnetic mounting installation for temporary or semi-permanent vehicular installations of GPS navigation, Cellular and/or combo Cellular/GPS applications.

WPANTAUTG Series

This family offers the ease and convenience of glass mounted (or under dash/under parcel shelf) antennas for GPS navigation, cellular and/or combo cellular/GPS applications.

WPANTAUTB Series

This family is suitable for permanent installs or OEM applications where GPS navigation, cellular and/or combo cellular/GPS applications require improved performance. Bluetooth™ (2.4GHz combo variants) are also available.

Computer/Peripherals (External Antennas)

WP Wireless™ has developed a range of dipole and monopole antennas suited to consumer wireless WLAN, Bluetooth™, Cellular, and ultra-wide band (UWB) applications. Custom variants are available on request.

WPANTMP Series Monopoles

The very popular WPANTMP Series is a quad-band GSM monopole antenna. Applications include the GSM/GPRS portion of GPS tracking devices and Automated Meter Reader applications.

WPANTDP Series Dipoles

This series of antenna cover the popular ISM 2.4GHz bands with a range of gains up to 5dBi as well as cellular single and dual band applications.



Handheld Devices (Embedded Antennas)

WP Wireless™ is a market leader in low cost, ultra-compact Low Temperature Co-Fired Ceramic (LTCC) Antennas and FR4 SMD PIFA Antennas. Our antennas have found their way onto the BOMs of major semiconductor WLAN and Bluetooth™ OEM reference designs and major OEM consumer wireless devices such as Hewlett Packard's SMART phones and PDA's.

WPANTSMLT Series

This WPANTSML series boasts frequency coverage for the 2.4GHz ISM band, suitable for Bluetooth, Zigbee and WLAN 802.11b/g. Standard sizes are available down to 3.2mm x 1.6mm.

WPANTFR4 PIFA Series

Since not all applications are suited to the lower cost SML series monopole structured antennas, WP Wireless introduced the WPANTFR4 PIFA as an SMD antenna available on tape and reel offering vertical polarization on PCB SMD mount applications.

WPANTSMC Series

This SMD ceramic planar antenna series is suitable for the 2.4GHz ISM band applications such as Bluetooth, Zigbee and WLAN, as well as assisted GPS or E-911 (1.575GHz).

WPANTP and WPANTMOD Series GPS Antennas

WP Wireless™ has responded to customer demands for smaller and more compact GPS antennas with lower profile and modular versions of its WPANTP series patch antennas and WPANTMOD series GPS modules with integrated amplifiers and filters.

WPANTP Series

This family offers traditional RHCP patch antennas for the GPS L1 band and optionally LHCP variants, with compact and low profile versions ranging from 25mm x 25mm x 2mm to 18mm x 18mm, 15mm x 15mm x 4mm, and even 12mm x 12mm x 4mm with GPS L1 band RHCP capability.

WPANTMOD Series

This family of embedded active GPS antennas was developed for use in SMART phones and handheld navigational talk devices requiring GPS navigation capability within a small form factor. It offers amplified GPS (up to 26dBi gain) with antenna form factor down to 12mm x 12mm x 4mm (passive element).



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