

## WPANT40012-CA

### 915 / 2400 MHz ISM Dual-band Wrap-Around AMI Antenna



### Description / Application

This is a high performance wrap-around antenna for Electric Meters that operates in both 900 MHz and 2.4 GHz ISM Bands. It has an industrial grade double stick tape on the back for easy installation. Standard cable is 1.32mm dia Micro Co-ax U.FL cable with IPX / Hirose connector.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to trouble shoot system integration issues such as TRP/TIS and FCC requirements. We specialize in developing customized Antenna solutions. Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

<b>Operating Frequency</b>	902 – 928 MHz	2.4 – 2.5 GHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω	50Ω
<b>VSWR – Typical*</b>	< 2.5:1	< 2.5:1
<b>Peak Gain [dBi] (Typical)*</b>	1 to 3 dBi	2 to 3.5 dBi
<b>Efficiency [%] (Typical)*</b>	40 – 60 %	40 – 65 %
<b>Polarization</b>	Linear	Linear
<b>Pattern</b>	Near Omni-directional	Near Omni-directional

\*Note: The above mentioned relevant performance metrics are recorded with the Antenna placed inside L&G & GE Electric meters. Any modifications with regards to the application/use of this antenna (as defined in this specification) may change antenna performance characteristics. Performance will also vary based on the placement positions of the antenna in the meter. Please contact WPI design team for optimization & placement selection on any meter.

### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	6.7" X 1" X 10mils** (170mm X 25mm X 0.25mm)
<b>Antenna Color</b>	Blue
<b>Cable</b>	8.5" long (from the edge of the PCB) 1.32mm dia Micro Co-ax U.FL
<b>Connector</b>	IPX / Hirose equivalent
<b>Tape on the Back</b>	6mm wide 4930 3M Double Stick
<b>Operating / Storage Temperature</b>	-40°C to +90°C
<b>UV Tolerance</b>	100% UV Resistant
<b>Environmental</b>	Meets standards for UL 94V-0
<b>Hazardous Materials</b>	RoHS Compliant

\* Thickness is 0.88mm including the tape on back

Pictures of the Antenna

