

## WPANT40009-CB

### 850/1900 MHz Dual-band Cellular Wrap-Around AMI Antenna



#### Description / Application

This is a high performance wrap-around antenna for Electric Meters that operates in both 824-894 MHz and 1850-1990 MHz Cellular Bands. This Antenna helped Systems pass PTCRB Certifications. Standard cable is U.FL 1.13mm micro-coax & connector is IPX/ Hirose equivalent. The Antenna is backed by a 3M double stick industry grade foam tape.

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>	824 – 894 MHz	1850 – 1990 MHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω	50Ω
<b>VSWR – Typical*</b>	< 2.5:1	< 2.5:1
<b>Peak Gain [dBi] (Typical)*</b>	3 to 3.7 dBi	3 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 wrapped around (installed) the meter's surface, inside the upper plastic cap/drum. Any modifications with regards to the application/use of this antenna (as defined in this specification) may change antenna performance characteristics. Since this is an embedded Antenna, Performance will vary based on the Antenna placement within the meter & also with the variance of the Cable routing.

#### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	6.7" X 1" X 10mils (170mm X 25mm X 0.25mm)
<b>Antenna Color</b>	White
<b>Cable</b>	10.6" long (from the edge of the PCB) 1.13mm dia Micro Co-ax U.FL
<b>Connector</b>	IPX / Hirose equivalent
<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

**Pictures of the Antenna (by itself and as installed on a typical Electric Utility Meter)**



