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WPANT40001-SC1



Description / Application

This is a standard WPI antenna, designed for Metering applications that operate in US Cellular band. The antenna is designed such a way that it performs optimum when it is wrapped around a meter's surface, as shown in the pictures in the following pages. It is designed to operate with healthy efficiency figures in both 824-894 MHz & 1850-1990 MHz bands, in spite of the heavy interference (Noise/ RF blockage) inside of a typical meter. The antenna, if installed right, can provide best Signal / Noise figure for the overall RF system. This particular configuration of the antenna comes with a 200mm 1.13mm dia micro co-ax cable and an IPX / Hirose equivalent 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 with your specific application requirements.

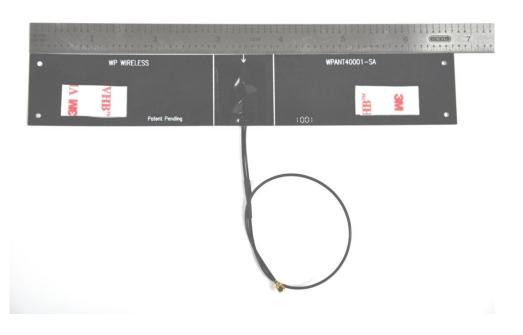
Electrical Properties		
Operating Frequency	824 – 960 MHz	1850 – 1990 MHz
Approximate Antenna Impedance [Ω]	50Ω	50Ω
VSWR – Typical*	< 2.5:1	< 2.5:1
Peak Gain [dBi] (Typical)*	1.5 to 2.5 dBi	2.5 to 3.5 dBi
Efficiency [%] (Typical)*	~ 65 %	~ 60 %
Polarization	Linear	Linear
Pattern	Near Omni-directional	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.

Mechanical / Environmental Properties		
Antenna Dimensions	6.7" X 1.2" X 10mils (170mm X 29.5mm X 0.25mm)	
Antenna Color	Black	
Cable	7.9" long (from the edge of the PCB) 1.13mm dia Micro Co-ax U.FL	
Connector	IPX / Hirose equivalent	
Таре	0.64mm thick Standard 3M double stick	
Operating / Storage Temperature	-40°C to +90°C	
UV Tolerance	100% UV Resistant	
Environmental	Meets standards for UL 94V-0	
Hazardous Materials	RoHS Compliant	



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







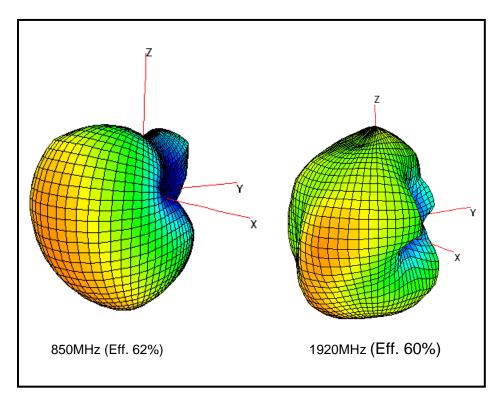








3D Radiation Pattern of the Antenna - as installed on the Meter



Note: The 3D Gain pattern and efficiency shown above is as measured with the antenna mounted on a particular GE meter at 3'O Clock position.