

WPANT40007

Flexible Cellular Antenna for Smart Meters (AMI)



WPANT40007-CE

12.6" RG178 with MCX male connector

Note: Different cable and connector style requests can be accommodated.

Application

This compact antenna is tuned to perform the best when wrapped around an energy meter. Its PTCRB focused high performance design is specifically tailored to sustain high noise environments that exist in a typical energy meter.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further help to troubleshoot system integration issues such as TRP/TIS and FCC requirements.

Electrical Properties

Operating Frequency	824 – 894 MHz	1850 – 1990 MHz
Approximate Antenna Impedance [Ω]	50 Ω	50 Ω
VSWR (Typical)*	< 2.5:1	< 2.5:1
Peak Gain [dBi] (Typical)*	3.5 dBi	3.5 dBi
Efficiency [%] (Typical)*	60 %	65 %
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. 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

Antenna Dimensions	4" x 1" x 0.01" (103mm x 25mm x 0.25mm)
Antenna Color	Black
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 (Antenna itself and as installed on a typical Electric Utility Meter)



