

## WPANT40021

### Flexible 4G / LTE Cellular Antenna for Smart Meters (AMI)



WPANT40021-C1B

8.5" micro co-ax with IPX MHF

WPANT40021-C2A

9.5" micro co-ax with SMA Male

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

### Application

This 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

<b>Operating Frequency</b>	698 – 960 MHz	1710 – 2700 MHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω	50Ω
<b>VSWR (Typical)*</b>	< 3:1	< 3:1
<b>Peak Gain [dBi] (Typical)*</b>	3 dBi	3 dBi
<b>Efficiency [%] (Typical)*</b>	60 %	70 %
<b>Polarization</b>	Linear	Linear
<b>Pattern</b>	Near Omni-directional	Near Omni-directional
<b>Accepted Power [W] (Max)</b>	2 Watts	2 Watts

\***Note:** The above mentioned relevant performance metrics are recorded with the Antenna wrapped around (installed) an electric meter's surface, inside the upper plastic cap/drum. Since this is an embedded Antenna, performance may vary based on the Antenna placement within a device & also with the variance of the Cable routing.

### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	4.66" x 1.81" x 0.01" (118.5mm x 46mm x 0.25mm)
<b>Antenna Color</b>	Black
<b>Double Stick Tape</b>	15 mils thick 3M 4926 VHB
<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

