Taoglas AntD Technology Complies with Antenna Detection Features in Cellular M2M Modules

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Taoglas USA [1] (San Diego, CA) provides an entire product line that contains an antenna diagnostic compatibility feature within its cellular antennas for M2M devices. Called AntD, this solution enables M2M device manufacturers to detect if an antenna is connected or not and informs device owners if an antenna or transmission line has been damaged or is no longer working. This is critical for M2M devices in remote areas, devices in danger of being vandalized, or for customer-care, trouble-shooting situations. Taoglas' Antenna Diagnostics capability, AntD will initially be featured on cellular antennas, the Triton TG.10R.0113, the FXP14R Flexible Antenna, and the PC104R from The Stripe series.The feature is also being added to many external antennas, including the Pantheon and Spartan series.

Taoglas' antenna diagnostics is implemented at the product or radio module level to sense if an antenna is attached and if the basic transmission path is sound. AntD:

- Can detect shorts or open circuits in the transmission line, which are consistent with cables being severed or crushed.
- Can work on any passive antenna including cellular, Wi-Fi, ZigBee, Iridium, ISM band, and licensed narrowband antennas.
- Measures the voltage drop across a resistor embedded in an antenna. This detects if an antenna is present or not.
- The circuitry implementation is open to M2M product designers but requires that each antenna provides a consistent and known DC resistance. Taoglas' AntD compatible antenna products include this DC resistance to enable these features.

For more information, please visit www.taoglas.com [1]

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