# MTM-E™ Enables Small, High-Performance Handsets with Longer Battery Life

Rayspan® Corporation announces the availability of RAYSPAN® MTM-E™ solutions for long-term evolution (LTE). MTM-E™ is the only antenna solution that can support six or more bands operating from 698 MHz to 960 MHz in the low band and 1710 to 2170 MHz as well as 2.6 GHz in the high band without requiring any switching elements or matching circuits. MTM-E™ is the smallest LTE antenna platform available, meeting the requirements for portable LTE devices such as mobile phones, laptops, USB dongles, wireless routers and wireless modems. The RAYSPAN® MTM-E™ solution is the only antenna technology that offers integrated LTE, 3G, Bluetooth and GPS all from a single-feed antenna solution. The MTM-E™ antenna is a simple 2D design in which copper artwork is printed directly on a device's printed circuit board (PCB) using standard PCB manufacturing techniques. This enables MTM structures to be built using the finest line widths and spacing available for antennas. These MTM structures, along with eliminating the need for switching elements and matching circuits, simplify system integration, lower power consumption, accelerate time to market and allow for smaller handset designs. The RAYSPAN® MTM-E™ solution complies with the current LTE standard which calls for multiple input, multiple output (MIMO) technology requiring two separate antenna structures that operate over the same frequency band, at the same time, and from the same location.

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