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Ultra Communications Complete Photonics Manufacturing Program

Vista, California, September 20, 2010 - Ultra Communications, Inc today announced that it has completed the SBIR Phase II “Photonics Manufacturing” program. This program developed a manufacturing line for creating sub-components used in ruggedized transceivers for the industrial commercial, military and space environments.

The Photonics Manufacturing program created a MRL 6 manufacturing line to create photonic CORE components. A CORE contains the transceiver ASIC, optoelectronic devices (1 x 4 VCSEL and PIN arrays) and collimating optics. The CORE has an 8 x 8 mm² footprint and 2 mm height. The CORE has a wire-bond electrical interface and expanded beam optical interface (EBOI).

This component can be embedded within a traditional module or placed directly on a PCB. USConec has developed a ribbon terminus for optical coupling to components with EBOI. The EBOI offers tolerance to mis-alignment (up to +/- 40 microns for 250 pitch optics).

The CORE is designed for harsh environment application by creating a flip-chip assembly of CTE matched materials (ceramic, GaAs, sapphire and glass). To achieve low costs, these components are fabricated on wafer scale processes. The CORE has completed 500 thermal cycles (-55 to 125C), further qualification is underway.

About Ultra Communications

Ultra Communications (UltraComm) supplies highly compact and robust photonic components for harsh environment applications, such as satellites, military airframes, UAV, missiles and cell phone base station applications. We have developed a hybrid IC and optoelectronic integration approach that features: Standard planar manufacturing of photonic packages, Single chip integration of multiple functions—transmitters, receivers and built-in-test, high speed digital (10 Gbps) or RF photonic components, ability to optically monitor Vertical Cavity Surface Emitter Lasers (VCSEL) on a per-channel basis, and operation over a wide temperature range and in radiation environments. Ultra Communications is headquartered in Vista, California (in the greater San Diego area). Additional information is available on the web at www.ultracomm-inc.com.

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