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## **Ultra Communications and C-MAC MicroTechnology to Jointly Develop Transceiver Modules for Harsh Environment Applications**

**Vista, California, October 5, 2010** – Ultra Communications has announced it has reached an agreement with C-MAC MicroTechnology of Great Yarmouth, Norfolk, UK to co-develop state-of-the-art 10Gb/s optical transmit and receive modules for military and space applications. Following the success of C-MAC's unique STANAG 3910 optical transceiver employed on the Eurofighter, the company is ideally positioned to design and manufacture the next generation optical databus products for applications in existing and future systems in harsh environments in the defense, aerospace and space markets etc.

This device will be capable of servicing the needs of all existing and planned avionics optical databus requirements for the foreseeable future. C-MAC's transceiver will initially provide four transmit and four receive optical channels each running at 2.5Gb/s using Ultra Communications patented optical core. It will be packaged in a hermetic enclosure and qualified to international military and space standards and the evolving JEDEC standards.

This new product will demonstrate once again C-MAC's strength in developing new products via partnerships with other leading technology companies and will meet the growing demand for high data rate transmission via optical networks built into class leading air frame and satellite architecture.

Bob Hunt, Head of Strategic Technology C-MAC Aerospace and Defence said: "We are extremely excited to work with a company like Ultra Communications who have demonstrated the effectiveness of this ground breaking technology. We look forward to combining their unique technology with C-MAC's robust modular design solutions which are employed extensively in the Aerospace and Defence markets. Their optical core embedded within C-MAC's highly integrated module provides the ideal solution for high speed optical data transmission in harsh environments. Our commitment to the Aerospace, Defence and Space markets and our reputation for high reliability products reinforces C-MAC's position as a leading databus product supplier."

Chuck Tabbert, Vice President Sales and Marketing, Ultra Communications said " This development with C-MAC will set the bar for ruggedized fiber-optic transceivers now and in the future. We believe C-MAC's MIL-PRF 38534 hybrid capability and our optical engine roadmaps are a perfect fit for the expanding high bandwidth data rate needs of advanced satellites, & avionics. This is only the beginning!"

Headed by Indro Mukerjee, **C-MAC MicroTechnology** is a world leader in high-reliability electronic systems, modules and components for harsh environments such as extremes of temperature, vibration and shock. C-MAC operates primarily within the defence, aerospace, automotive, space, and energy sectors. The head office is in



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Buckinghamshire, UK and the company has design and manufacturing facilities in the UK, Belgium and Canada, with additional dedicated sales and customer support teams throughout Europe and the USA. C-MAC has extensive electronics design and manufacturing expertise geared to its target industries.

Manufacturing processes and technologies at production sites at Great Yarmouth in the UK, Sherbrooke in Canada and Ronse in Belgium include thick-film printing on ceramic and other substrates, surface-mount hybrid circuits, DC/DC power modules, direct-attach flipchip, low-temperature cofired ceramic (LTCC), chip-on-board (COB), hermetic multichip modules (MCMs) and PCB assembly. These manufacturing resources are complemented by an integrated design-for-test service encompassing ASIC design as well as analogue, digital, RF, mixed-mode and thermal simulation. C-MAC also operates a UKAS accredited Test House in Great Yarmouth, where an extensive range of product qualifications, dynamic and climatic tests are performed to internationally recognised standards.

**Ultra Communications** develops high data-rate photonic components for harsh environment applications such as satellites, military and commercial airframes, UAVs, and missiles. UltraComm's core competencies are in the areas of high-speed mixed-signal ASIC design, micro-optics, and precision flip-chip bonding and packaging. Our next generation 10G transceivers technology will incorporate integrated OTDR for fiber fault isolation and a low-profile harsh-environment optical connector. Advanced research efforts include chip-to-board optical interconnects, multi-mode RF photonics, and ruggedized DWDM components. UltraComm is a 2005 spin-out of Peregrine Semiconductor, and is located in Vista, California.

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