



New TTP communication controller for aerospace applications

ON Semiconductor and TTTech Develop New TTP Controller

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TTTech, the foremost supplier of solutions in the field of time-triggered technologies, and ON Semiconductor (NASDAQ: ONNN) a global leader in power management solutions, have agreed to join forces to develop a controller for TTP® (Time-Triggered Protocol). This new TTP controller is targeted at cross-industry applications and especially the aerospace market.

TTTech and ON Semiconductor will offer the new high-speed data bus controller with up to 25 Mbit/s per channel for aerospace projects that demand the robustness of the TTP technology as well as the reliability and longevity of ON Semiconductor products. The TTTech/ON Semiconductor technology arrangement will help developers of critical applications to manage risks of capital-intensive aerospace programs more effectively.

“We decided to invest in the TTP technology because of its benefits for the aerospace market. TTP aligns well with our strategy for military and aerospace,” states Vince Hopkin, Vice President, Military/Aerospace and Digital products. TTTech and ON Semiconductor plan to have engineering samples available by Q2/2009.

“With this exciting technology partnership now in place we are able to offer TTP controllers from two independent suppliers. The strategic alliance with the recognized innovative US-based semiconductor manufacturer ON Semiconductor will also allow us to better serve the US aerospace market,” says Guenter Motzet, Director Chip IP Design at TTTech.

The new device is intended to be compatible with the TTP controller AS8202NF available from austriamicrosystems (SWX: AMS) and will have the same pinout. This will effectively ensure the sourcing of TTP controllers from two independent suppliers. In addition, the ON Semiconductor TTP device will offer a configurable 8B10B coding at communication speeds of 10 Mbit/s using RS-485 physical layer. The data rate for TTP communication over RS-485 is doubled compared to previous technologies while maintaining DC-free operation according to aerospace requirements. This higher speed option will be supported by TTTech products in line with upcoming customer projects.

TTP is a key technology for tight digital integration of safety-critical systems in “more electric” aircraft. This open, modular and scalable control system technology is designed for efficient system reconfiguration, upgrades and growth. TTP enables highly reliable distributed computing and networking for modern, more efficient aerospace systems at lower total lifecycle costs and supports shorter time-to-market.

TTP communication controllers offer a maximum level of fault tolerance, safety, and availability for aerospace applications. The TTP chip IP is designed to meet aerospace requirements in compliance with DO-254/DO-178B Level A. They are successfully applied in modular and distributed control systems in aerospace programs such as the Airbus A380, Lockheed Martin F-16 and in the Boeing 787 Dreamliner.

About TTTech Computertechnik AG

TTTech Computertechnik AG is the leading supplier of solutions in the field of time-triggered computer systems. The company's products, based on time-triggered protocols TTP® (Time-Triggered Protocol), FlexRay™, and TTEthernet™ improve the reliability of data communication systems in transportation and automation industries. TTEthernet is a flexible and scalable solution for advanced integrated systems and is compatible with existing Ethernet standards. FlexRay solutions are offered by TTTech's subsidiary, TTTech Automotive.

Standard software and hardware products are complemented by worldwide product and project support to efficiently develop and implement distributed embedded systems. TTTech's product range enables developers of safety-critical data communication systems to optimize their operations with respect to safety, cost, and productivity.

Further information on TTTech is available at www.tttech.com.

About ON Semiconductor

With its global logistics network and strong product portfolio, ON Semiconductor (NASDAQ: ONNN) is a preferred supplier of efficient power solutions to customers in the power supply, automotive, communication, computer, consumer, medical, industrial, mobile phone, and military/aerospace markets. The company's broad portfolio includes power, analog, DSP, mixed-signal, advance logic, clock management and standard component devices. Global corporate headquarters are located in Phoenix, Arizona. The company operates a network of manufacturing facilities, sales offices and design centers in key markets throughout North America, Europe, and the Asia Pacific regions.

For more information, visit <http://www.onsemi.com>.

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