

TTControl launches TTC 200

High-Performance Control Unit for Safety-Critical TTP-Based Applications

Brixen, Italy – September 1, 2004

TTControl expands its product line with a new innovative control unit. TTC 200 is the first unit worldwide suitable for commercial production that supports both CAN and the Time-Triggered Protocol (TTP®). This control unit fulfills all technical requirements for advanced automotive electronics in the area of off-highway vehicles. TTC 200 can be used as a stand-alone solution or as part of a networked system in safety-critical applications.

As with all other units of the TTC series, TTC 200 is a programmable electronic control unit for sensor/actuator management. Many configurable I/Os allow its use with different sensor and actuator types. The control unit is designed specifically for vehicles and machines that function in rough environments and at extreme operating temperatures of -40 °C to +85 °C. Its robust injection-molded aluminum housing protects against electromagnetic disturbance and mechanical stress. A 40 MHz Motorola MPC555 integrated microprocessor supplies the necessary processing power.

All TTC 200 inputs and outputs are protected against electrical surges and short circuits. The proportional hydraulic components can be controlled by PWM outputs with internal power measuring or outputs for hydraulic valves with integrated power stages. CAN, TTP, RS-232 and LIN / TTP/A / ISO-K are available for serial communication. TTC 200 was designed to comply with the IEC 61508 international standard. The stand-alone version and the network version with TTP fulfill SIL 2 (Safety Integrity Level) and SIL 3 requirements respectively.

The ^{TTP}Matlink library for MATLAB®/ Simulink® and an I/O library are available for TTC 200. These enable the rapid automatic code generation for the application software without manual coding and are fully integrated with the TTP tool chain. The ^{TTP}Tools software development environment provides easy and intuitive data transmission over the redundant TTP bus. The software is downloaded via TTP into the flash memory of the TTC 200.

Electronic control units have become very complex. Failures can endanger people and cause economic damage. This is why safety, reliability, and availability become more and more important in technical systems. TTP is designed specifically for networks that require a high level of safety, reliability, and availability. With its inherent support for TTP, TTC 200 is suited for use in networked, safety-critical systems.



About TTControl

TTControl offers electronic control systems for special vehicles, such as agricultural and construction machinery, tunneling equipment, forestry machinery, cranes, snow groomers, and mining equipment. TTControl's software and hardware platforms enable manufacturers of special vehicles to develop reliable electronic control systems quickly and economically. TTControl is a subsidiary of TTTech Computertechnik AG.

Further information on TTControl is available at www.ttcontrol.com.

About TTTech Computertechnik AG

TTTech Computertechnik AG is the leading supplier of technology and software products in the field of time-triggered systems and TTP[®] (Time-Triggered Protocol). TTTech products enable developers of automotive, aerospace, and industrial control equipment to deliver reliable embedded systems quickly and efficiently. TTTech's products comprise a complete software development environment for TTP-based systems, including hardware as well as TTP chip models. In addition, TTTech provides a broad range of services, from training courses on time-triggered technology to worldwide product and project support. TTTech especially emphasizes by-wire systems, integrated vehicle control systems, and driver assistance systems.

TTTech's subsidiaries – TTChip Entwicklungsgesellschaft mbH, TTControl S.r.l. and TTTech Germany GmbH – focus on designing chip models, developing electronic control systems for special vehicles, and validating system architecture with prototypes. TTTech North America Inc. and TTTech Japan provide on-site engineering and sales support.

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

Press Contacts

TTControl

Marc Weissengruber
Marketing and Sales
TTControl S.r.l.
Kravoglstrasse 11
I-39042 Brixen (BZ), Italy
Tel.: +39 0472 2680-11
Fax: +39 0472 2680-14
E-mail: pr@ttcontrol.com

TTTech Computertechnik AG

Katrin Klinger
PR and Marketing
TTTech Computertechnik AG
Schoenbrunner Strasse 7
A-1040 Wien, Austria
Tel: +43 1 585 34 34-0
Fax: +43 1 585 34 34-90
E-mail: pr@tttech.com