

Powerful control for mobile applications

TTCControl Introduces TTC 100 Controller

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TTCControl – TTTech Off-Highway, the supplier of electronic control systems for off-highway vehicles, has introduced the TTC 100, a new member of the hardware family. TTC 100 is a programmable electronic control unit for sensor/actuator management in vehicle control systems.

TTC 100 is a cost-effective device that can be used as a stand-alone solution or as part of a networked system. It is especially effective in advanced safety-relevant applications. TTC 100 fulfills all technical requirements for advanced automotive electronics in the off-highway domain. This includes agricultural and construction machinery, all of which function in harsh environments and at extreme operating temperatures.

All TTC 100 inputs and outputs are freely programmable. Moreover, they are protected against electrical surges and short circuits. CAN, RS-232 and LIN / TTP/A / ISO-K is available for serial communication. Proportional hydraulic components are particularly important in the off-highway vehicle domain. These can be controlled by PWM outputs with internal power measuring, or outputs for hydraulic valves with integrated power stages.

TTC 100 was designed to comply with the IEC 61508 international standard. The stand-alone version and the network version fulfill the requirements of SIL 2 (Safety Integrity Level 2). This allows TTC 100 to be used for control of vehicle functions that require high levels of safety and reliability.

A broad range of tools is available to program TTC 100. At the basic level, it may be programmed in C. In addition, a TTPMatlink library and an I/O library are available to enable programming in MATLAB®/Simulink®.

CoDeSys, which is one of the most common IEC 61131-3 programming systems that runs under Microsoft Windows®, is also available for programming the TTC 100. Several editors are supported, including the Instruction List Editor, the Sequential Function Chart Editor and the Function Block Diagram Editor. CoDeSys produces native machine code for the main processor of TTC 100. CoDeSys combines the power of familiar programming languages, such as C and Pascal, with the easy handling and operational functions of PLC programming systems.



About TTControl S.r.l. – TTTech Off-Highway

TTControl offers electronic control systems for off-highway vehicles, such as agricultural and construction machinery, fork lifts, cranes, and snow groomers. TTControl's software and hardware platforms enable manufacturers of off-highway vehicles to develop reliable electronic control systems quickly and economically. TTControl is the subsidiary of TTTech Computertechnik AG specialized in off-highway vehicle control.

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.

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

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