
TÜV NORD certifies TTControl's TTC 200 according to IEC 61508

TTC 200 Certified for Applications up to SIL 3

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TTControl – TTTech Off-Highway, the specialist in electronic control systems for off-highway vehicles, has announced that TÜV NORD has certified TTControl's TTC 200 electronic control unit (ECU) according to the international IEC 61508 standard. TTC 200 is the first ECU in the worldwide off-highway market that allows applications to be created up to Safety Integrity Level (SIL) 3. The device enables a maximum level of reliability, thus minimizing costs for development and failure.

IEC 61508 is an international standard for functional safety of electrical, electronic and programmable electronic safety-related systems. The TTC 200 stand-alone version fulfills SIL 2 requirements; two TTC 200 ECUs in a TTP[®] network have been the first to achieve SIL 3 certification. "Our comprehensive certification process has shown that TTC 200 provides a maximum level of reliability. It is thus best suited for off-highway vehicles in on-road traffic", states Dr. Tomislav Lovric, project leader at TÜV NORD, when summarizing the test results.

TTC 200 is a programmable, general-purpose ECU for off-highway vehicles. It was designed from the outset to meet the high requirements of safety-critical applications. With TTC 200, failure rates can be reduced. Its compliance with IEC 61508 enhances development processes, resulting in higher product quality. Costs of defective and idle machinery can be kept at a minimum.



TTC 200 contains an independent watchdog CPU that communicates with the main CPU. The watchdog CPU operates redundantly, monitoring activities, detecting faults, and shifting the vehicle to a safe state in case of failure. Both CPUs monitor each other and the watchdog CPU is able to switch off the power supply in order to stop safety-critical applications.

Examples of some current applications that use TTC 200 are ice resurfacing machines, snow groomers, and mobile work machines. The safety-critical functions of the vehicles are carried out by TTC 200, ensuring safe working conditions for users and people in the immediate vicinity of the machines.

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. The company's software and hardware platforms enable manufacturers of off-highway 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 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 TÜV NORD Group

The Institut für Fahrzeugtechnik und Mobilität IFM (<http://www.ifm-tuev-nord.de>) is part of the TÜV NORD Mobilität GmbH & Co. KG located in Essen. It is one of Germany's largest technical mobility service providers with a workforce of more than 2800 employees.

"Making our world safer": TÜV NORD Group (<http://www.tuev-nord.de>) is active in more than 70 countries of Europe, Asia and America. The Group owes its leading position in the market to its technical competence and to the broad range of consultancy, service and testing activities performed by its Academy, Certification, Energy and Systems Engineering, International, Mobility and Systems business units.

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