HYDAC INTERNATIONAL-TTControl

TTControl, a joint-venture company of HYDAC International and TT Technology, specializes in control systems and operator interfaces for mobile machinery and off-highway vehicles. Being leaders in functional safety, TTControl's software and hardware platforms enable equipment manufacturers to develop highly reliable electronic control systems and operator interfaces for Safe Automation of mobile machinery and off-highway vehicles.

Products we offer:
- Displays
- Controllers
- Sensors
- Software & Development Tools

Wherever off-highway vehicles are at work, so is HYDAC Technology. We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Go to www.hydac-na.com for further product information.
TTC-WAVE Telematics System connects our customers via a web portal to their mobile machinery. Using the Cloud Service and the ruggedized IoT gateway TTC-WAVE, off-highway vehicles can be monitored and managed around the world. Remote access to all data available on the vehicle’s CAN buses allows for system monitoring, fault maintenance, theft protection and the optimization of future machine design.

Our connectivity platform TTCConnect, In-Vehicle Ethernet Interface is designed for the management of Ethernet networks in vehicles and machines in rugged operating environments. It combines and manages all in-vehicle interfaces such as BroadR-Reach, CAN-FD, lin and 100BaseTX Ethernet for diagnostics and flashing.

CoDeSys (Controller Development System) has been freely available since 1994 and is a development environment for programming control units according to IEC 61131-3.
- Three graphical languages (function block diagram, ladder diagram and sequential function chart)
- Two text-based languages (structured text and instruction list) for programming the programmable memory control.
- CODESYS stands out primarily for its simplicity and ease of use.

C (developed in 1972) and C++ (developed in 1983) may be two of the oldest classic programming languages in IT, but they are still in widespread use to this day.
- State-of-the-art in terms of achievable performance and flexibility.
- High performance speed and low memory requirements.
- C / C++ is also used for applications with high performance requirements and systems with limited resources, such as cost-optimized series devices.

MATCH (Machine Application Tool Chain) by HYDAC is a tool chain which offers a holistic solution to the software development.
- All safety-relevant modules are TÜV Certified.
- Development according to the V-Model, testing included.
- Documentation components are generated automatically.

Qt is a cross-platform development, framework for desktop, embedded and mobile applications.
- Integrated Help System
- Intelligent code completion
- Profiler integration
- Syntax highlighting
- Debugger & integration for all major version control systems

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