



Your
Automation
Expert

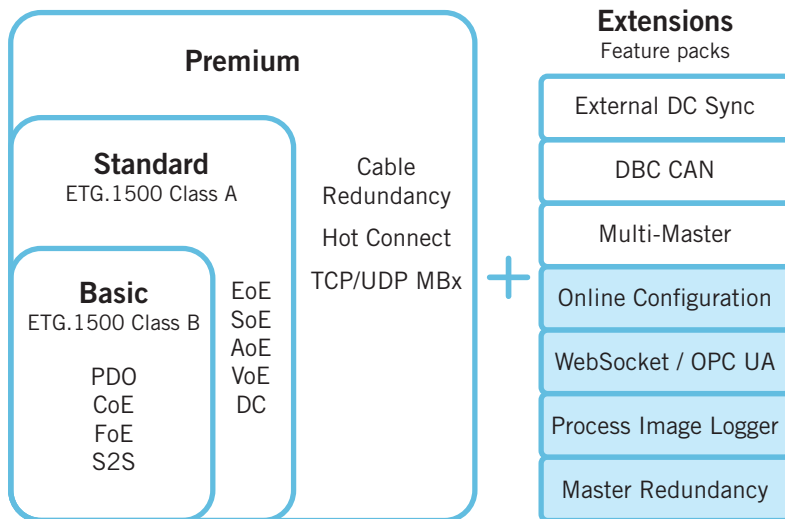


Controlling EtherCAT network

Key Features

- Versatile functionality exceeding ETG standard classes
- Available for numerous real-time target platforms
- Optimized for Xilinx and Altera FPGA
- Master Redundancy for exceptional fault tolerance
- Online configuration including bus scan and automatic device configuring
- WebSocket and OPC UA protocols for “smart industry” solutions
- Experienced team of support engineers ready to help with integration

KPA EtherCAT Master is a comprehensive product for industrial automation specialists who intend to add high-speed communication capabilities to their applications and solutions. It is a second generation of EtherCAT Master by koenig-pa, implementing a new advanced architecture and several unique features that facilitate better integration and performance increase.



Core Features

- Hard real-time capable in respective environments
- Single-threaded configuration for low-end systems
- Scalable, multi-threaded, multi-tasking configuration for high end systems
- Asynchronous API and event-driven model for immediate reaction and effective system resources usage
- Multiple Process Image clients for secure shared access
- Extended Process Image for additional services
- Data Logger and Frame Logger for fine-tuning and troubleshooting

Custom Development

koenig-pa offers specific software development for customers who require additional support for integrating EtherCAT capabilities into their applications or solutions. Our company has extensive experience in fieldbuses, embedded systems, real-time operating environments, industrial automation solutions for various fields of application. We are happy to offer our services for every customer.

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Master Redundancy

Several EtherCAT Masters can co-exist in a network segment, providing backup for seamless EtherCAT operation during possible Master failures. It significantly increases reliability and fault tolerance while reducing downtime.

Extensions (Feature packs)

KPA EtherCAT Master is a very flexible product that can be uniquely configured according to customer's requirements. It has numerous extensions that can be licensed independently, regardless of the standard ETG class specification.

Online Configuration

KPA EtherCAT Master can detect network topology changes and automatically configure slave devices using a library of user-defined slave configuration files (uESI).

WebSocket / OPC UA support

Master configuration and variables are available for external applications and services via several well-known protocols including WebSocket and OPC UA.

Process Image Logging + MATLAB / LabView integration

Process Image can be logged for further analysis. MATLAB integration and LabView-compatible (TDMS format) data logging are already implemented, with more applications and formats to come. This feature is extremely useful for throughput-sensitive data acquiring applications.

koenig-pa GmbH Quality Management System
certified according to DIN EN ISO 9001:2015
Initial certification in 2008
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