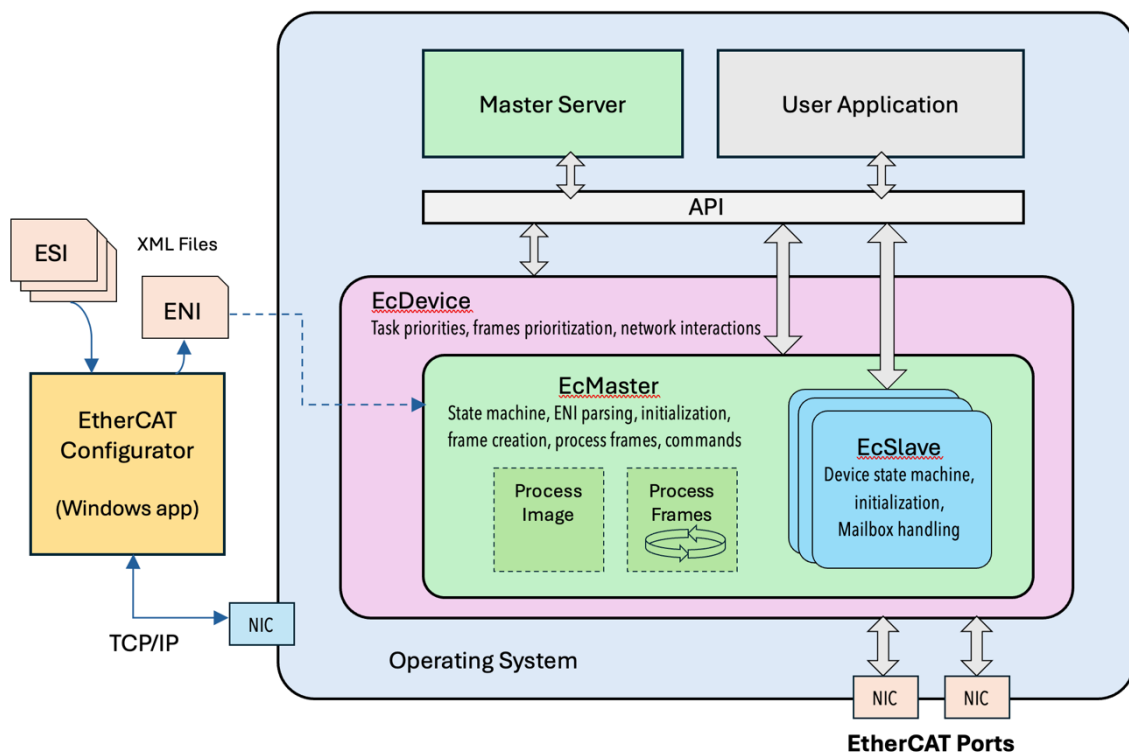


Embedded EtherCAT® Main Device “EEM”

Revolutionize Your Embedded Applications with EEM. State-of-the-art EtherCAT® Main Device / Master stack and software development kit (SDK), tailored for embedded applications. Whether it's industrial automation, robotics, or general real-time control, EEM empowers your system and products with performance, flexibility, and reliability.

Proven reliability with worldwide deployments since 2018



Why Choosing EEMaster?

Proven Reliability

- Trusted by leading OEMs worldwide since 2018.
- Optimized for motion applications, delivering highly deterministic / low jitter performance.

Broad Compatibility

- Operating Systems: Windows, INtime, FreeRTOS, Linux and µITRON.
- CPU Architectures: x86/64, ARM, PowerPC, Renesas SH, Nvidia Jetson and AMD ZYNQ

Scalable and Modular

- Modular architecture for easy adaptation to diverse OS/RTOS and hardware platforms.
- Lightweight C-based API for streamlined application development.

Best Price / Performance

- Competitive pricing
- Simple royalty-free options

Core Features

EtherCAT Compliance

- Conforms to ETG.1500 specifications.
- Seamless configuration via EtherCAT Network Information “ENI” (ETG.2100).

Real-Time Precision

- High-performance Ethernet MAC drivers ensure minimal jitter.
- Supports synchronization with Distributed Clocks (DC) and multiple master synchronization modes.

Advanced Diagnostics

- Built-in error detection and diagnostic tools.
- Access to sub-device EEPROM, ESC registers, and RAM.

Mailbox Protocol Support

- “CoE” CANopen over EtherCAT: SDO upload/download, info services, emergency request.
 - “FoE” File over EtherCAT: Efficient firmware updates and file transfers.
 - “EoE” Ethernet over EtherCAT: Allowing Ethernet traffic over EtherCAT using Mailbox EoE frames.
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Feature Packs

- **Hot Connect:** Add or remove devices on-the-fly without disrupting operations.
 - **Cable Redundancy:** Ensure uninterrupted operations with robust failover mechanisms.
 - **FPGA Integration:** Leverage AMD/Xilinx ZYNQ SoC for enhanced precision.
 - **SoftPLC Integration:** Drivers for GEB SoftPLC for IEC-61131 control applications.
 - **Multi-master:** Allowing multiple instances of Main Device on one or multiple cores
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Supplemental Tools

- Windows-based **configuration tool** available in binary and source code form.
 - Open text interface for easy integration with third-party software tools.
 - SoftPLC drivers and sample applications for GEB Automation SoftPLC IDE.
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How EEMaster Stands Out

Tailored for OEMs

- Modular design ensures quick customization and seamless integration.
- Proven deployment in industrial applications across the globe.
- Realtime performance, minimal jitter, and reliable long-term operations.

Ease of Use

- Simple text-based configuration for fast setup.
- Extensive documentation and sample code to get you started quickly.

Future-Ready Design

- Easily portable to new platforms and technologies.
 - Designed to adapt to evolving industry standards and requirements.
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Discover the Power of EEM

Request a free consultation or demo to see how EEM can transform your EtherCAT System.

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