

MDK (Master Development Kit)

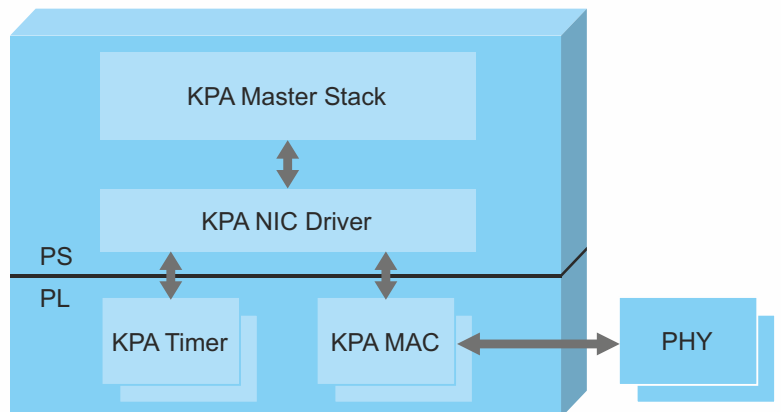
- KPA Master API
- KPA OSAL

KPA EtherCAT Master 2

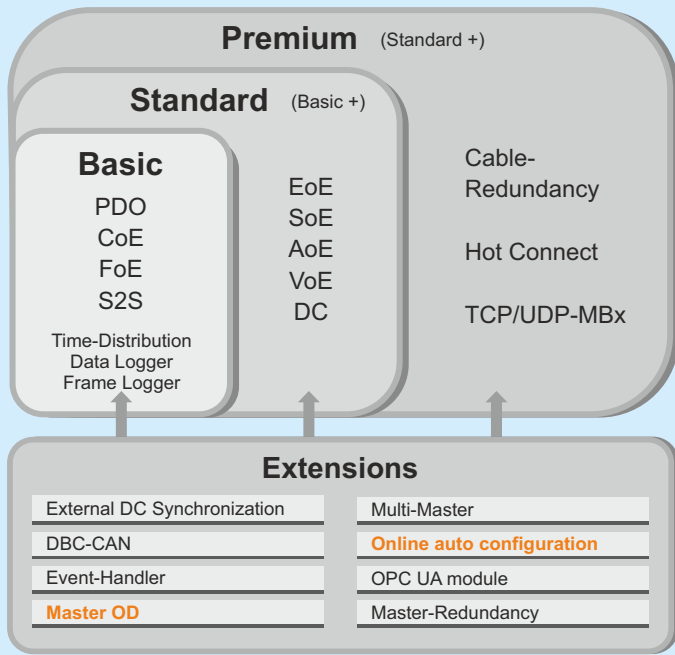
- Hard real-time
- Single- and multi- threaded
- Master OD module / EAP
- Online configuration module
- Finite state machine (task based)
- Data caching module
- Multi-Master module
- OPC UA module
- Class A, B, Premium
- Feature pack cable redundancy module
- Extension master redundancy module
- KPA MAC/Timer (for Zynq/Cyclone V)

KPA EtherCAT Studio 2

- Master/Slave configuration through master OD
- Modular structure



Architecture and design time



ETG 1500:

- Master class A (Standard)
- Master class B (Basic)

Extensions and feature packs:

- **Master OD**
 - Base for EAP and online configuration
- **Online auto configuration**
 - Master automatically detect slaves
 - Build slave configurations using
 - SII settings
 - ESI settings
 - Backup/restore and merge in manual mode
 - Master/Slave(s) configuration fine tuning

Process image

- PI Clients
- Complete frame support
- Extended PI for additional services
- Timestamp
- Transition locking, Mailboxes in PI

Topology

- Hot connect
- Explicit device identification
- Topology monitor
- DC (Distributed Clocks):
 - Time distribution
 - Propagation calculation
 - Sync-window monitoring
- External DC Synchronization

Asynchronous API

- Message queue
- Object handlers
- Streaming API
- All mailboxes supported including Resilient layer

Event Handler

- No polling, event driven

Multi-Master

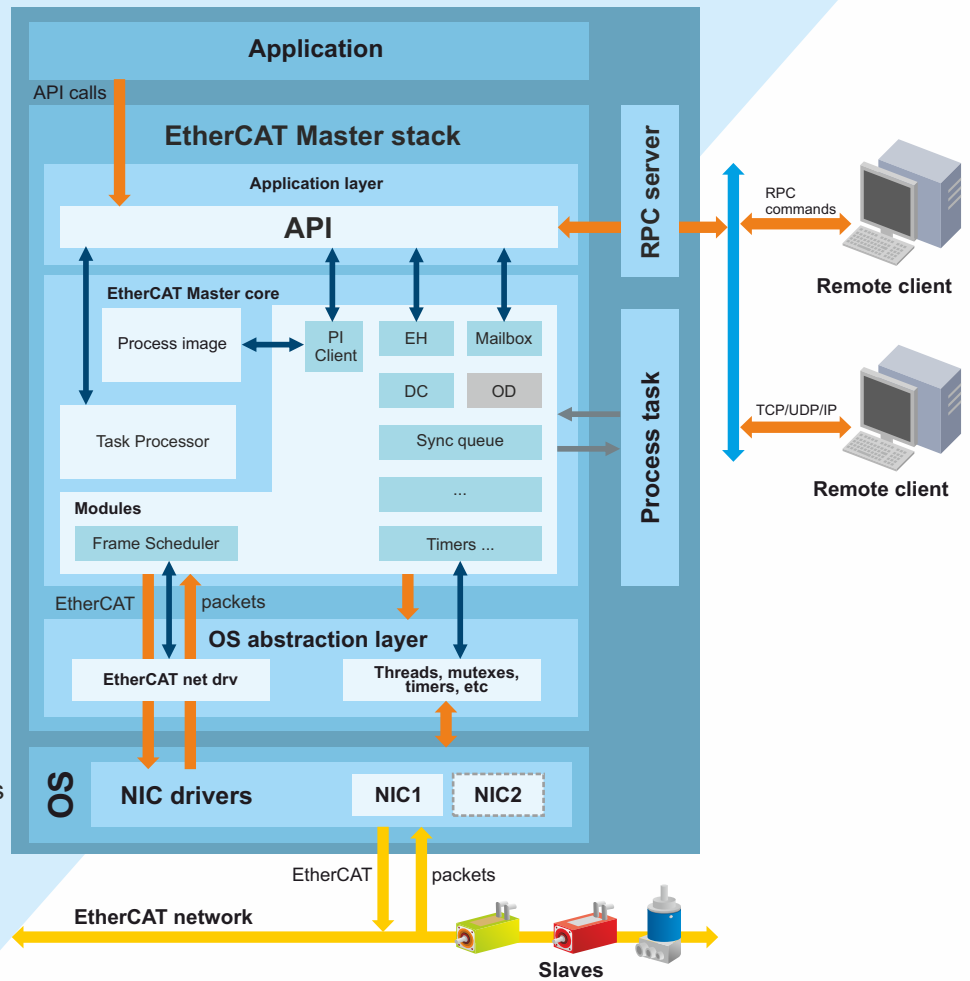
- Synchronized multiple master instances

High end CPUs

- Multi-tasking

Low end CPUs

- Single tasking
- Deterministic via finite state small tasks



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

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