

KPA PA EtherCAT Master Development Kit (MDK) enables OEMs to integrate KPA EtherCAT Master functionality. The MDK is available for various platforms and any of the following real-time operating systems (OS).



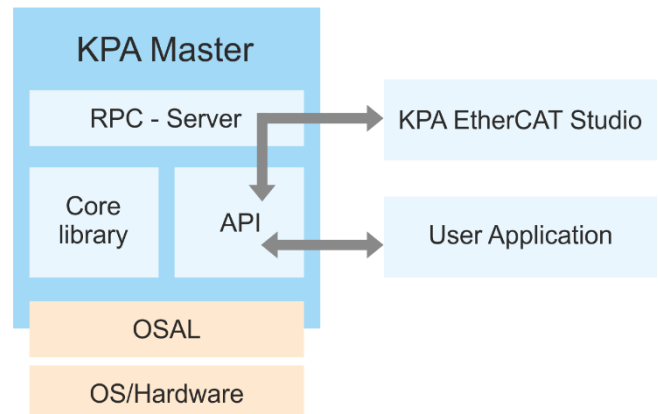
Notes: some OS like Windows XP, CE6/7, OnTime RTOS-32, PikeOS, RTAI are ported, but not actively supported.

## 1 Introduction

The MDK consists out of up to seven parts.

### 1.1 Master integration package (MIP)

- Master Core API
- Operation System Abstraction Layer (OSAL) (optionally in source code)
- Remote Procedure Call (RPC) Server (optionally in source code)
- Remote Procedure Call RPC Client (optionally in source code)
- More than 20 samples in source code and documents:
  - Master architecture, white paper.
  - MDK manuals, programmers guide.
  - API (Application Programming Interface) help.



### 1.2 Master runtime package (MRT) with licenses

- Binaries and user manuals (development manuals included in MIP).
- 2x KPA EtherCAT Master Standard Licenses (ETG 1500 "class A" master).
- 1x KPA EtherCAT Master Full (ETG 1500 "class A" including all FP and Extensions).

### 1.3 EtherCAT Studio executables

- KPA EtherCAT Studio Premium run-time including all plug-ins and user manuals for configuration and diagnostics of EtherCAT® network.
- 1x KPA EtherCAT Studio license.

### 1.4 MDK tutorials

- How to use KPA EtherCAT Master for selected OS
- How to use KPA EtherCAT Studio with Master for selected OS
- How to configure EtherCAT network, DC, modules and other specifics

### 1.5 Support and maintenance (S&M)

- Technical support and updates of EtherCAT Master/Studio for selected OS with access to Build Portal and Ticket System for one year.
- Prolongation on annual base upon request.

### 1.6 Optional IP-Cores and drivers (depending on target platform and OS)

- Encrypted Binaries of IP-Cores
- OS dependent drivers in binary and optionally source code

### 1.7 Optional Build portal

- KPA EtherCAT Master functionality customization
  - feature packs
  - extensions
- custom OSAL implementation (own OS support)
- custom BSP selection/implementation
- custom toolchain (specific compiler versions)

Optional Products based on MDK (see separate documents): OSAL in source code, Motion Development Kit.

## 2 MDK and MDK Trial comparison

Item	Criteria	MDK	MDK trial
	Purpose	Development	Evaluation
1	Master Integration Package (MIP)	Yes	Yes
2	MDK Tutorials	Yes	Yes
3	Licenses for Master Runtimes (MRT)	3 <sup>1)</sup>	Trial <sup>2)</sup>
4	KPA EtherCAT Studio License	Premium unlimited	Premium 3 months
5	Support & Maintenance <sup>3)</sup>	1 year	Startup support
6	FPGA IP-Core(s) with drivers	encrypted IPs	Board spec. image <sup>4)</sup>
7	Optional Build portal for OS	1 year	3 months

1. 1x Full license and 2x Standard license.
2. Trial Master works for one hour in OPERATIONAL and cannot be licensed.
3. S&M-conditions you find on our customer portal area.
4. Upon request.

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koenig-pa GmbH Quality Management System  
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Initial certification in 2008  
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