



KPA 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).



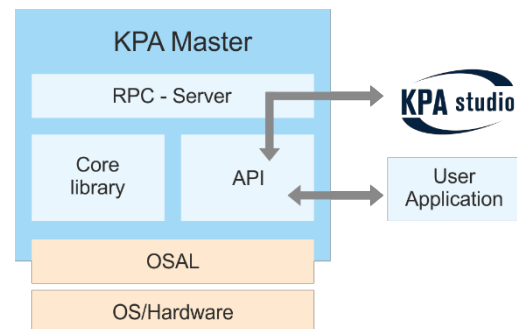
Notes: some OS like Windows XP, CE6/7, OnTime RTOS-32, PikeOS, RTAI are ported, but not actively supported.

## 1 Introduction

The MDK consists 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.

**koenig-pa GmbH**  
Im Talesgrund 9a  
91207 Lauf a.d. Pegnitz  
Germany  
[www.koenig-pa.de](http://www.koenig-pa.de)

**Contact**  
email: [sales@koenig-pa.de](mailto:sales@koenig-pa.de)  
tel.: +49 9128 725 614 (Feucht)  
tel.: +49 9128 725 631 (Feucht)  
fax: +49 9128 725 407 (Feucht)

koenig-pa GmbH Quality Management System  
certified according to DIN EN ISO 9001:2015  
(Initial certification in 2008).  
Copyright © koenig-pa GmbH, Germany. All rights reserved.  
EtherCAT® is registered trademark and patented technology,  
licensed by Beckhoff Automation GmbH, Germany

