

# KPA EtherCAT Master Development Kit

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): INtime, RTX/RTX64, Linux, Xenomai, QNX, VxWorks, FreeRTOS, Windows.

**NOTE**

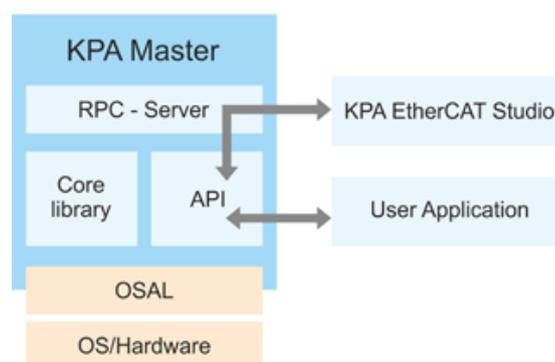
Some OS like Windows XP, CE6/7, OnTime RTOS-32, PikeOS, RTAI are ported, but not actively supported.

## Introduction

The MDK consists out of up to seven parts.

### 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



### 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)

### 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

### 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

## 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

## 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

## 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.

## 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> [Upon request.]
7	Optional Build portal for OS	1 year	3 months
8	Optional KPA EtherCAT Python package	Yes	Yes

<sup>1</sup>1x Full license and 2x Standard license.

<sup>2</sup>Trial Master works for one hour in OPERATIONAL and cannot be licensed.

<sup>3</sup>S&M-conditions you find on our customer portal area.

<sup>4</sup>Upon request.

### koenig-pa GmbH

Im Talesgrund 9a  
91207 Lauf a.d. Pegnitz  
Germany  
<https://koenig-pa.de/>

### Contact

email: [sales@koenig-pa.de](mailto:sales@koenig-pa.de)  
tel.: +49 9128 725 631  
tel.: +49 9123 960 5796

koenig-pa GmbH Quality Management System is 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.

