

koenig-pa GmbH Short Profile

koenig-pa GmbH, a company specialized in industrial automation software and hardware, offers world-wide high-quality automation technologies and integrated solutions. koenig-pa GmbH was founded 1986 in Feucht near Nuremberg as König Prozeßautomatisierungs GmbH. Our company has sales and engineering partners all over the world.

Our company joined the EtherCAT Technology Group (ETG) in 2004, and since then, we have been continuously developing and offering EtherCAT® based software and hardware products as well as services for different real-time systems for the production and testing industries.

Our quality management system meets ISO standards and covers all our products and services. All company processes, from a product order to technical support, are managed according to our quality management system.

Milestones

2025

KPA EtherCAT Master 2.7

KPA EtherCAT Master 2.7. KPA Master Redundancy software solution for Linux/Xenomai

KPA EtherCAT Master 2.7. QNX 8.0 support

KPA EtherCAT Master 2.7. Xenomai 3.3 support

KPA EtherCAT Master 2.7. Xenomai 3.2 support

KPA EtherCAT Master 2.7. Automatic recovery of broken NIC interfaces on Windows

KPA EtherCAT Master 1.8

KPA EtherCAT Master 1.8. Extended boolean data type values

KPA EtherCAT Master 1.8. RTX64 4.5.1 support

KPA EtherCAT Master 1.8. Implementation of the TLS and SSL protocols with Mbed TLS for Linux

KPA EtherCAT Slave Stack 2.6

KPA EtherCAT Slave Stack 2.6. Added a "simple example" project for the TI LP-AM243 board

KPA EtherCAT Slave Stack 2.6. Support of Beckhoff FC1100 PCI EtherCAT card.

KPA EtherCAT Slave Stack 2.6. Support of Linux kernel version 5.x.

KPA EtherCAT Studio 2.12

KPA EtherCAT Studio 2.12. Slaves Library enhancement

KPA EtherCAT Studio 2.12. Master Event Output control enhancement

KPA EtherCAT Studio 2.12. Tools/Plugins improvement

KPA EtherCAT Studio 1.12. EEPROM Editor enhancement

KPA EtherCAT Analyzer 1.0. Initial release

KPA Motion Control 1.19

KPA Motion Control 1.19. New function blocks: KMC_FbBrakingDistance, MC_GroupHome, MC_VelocityProfile

KPA Motion Control 1.19. Renewed documentation structure, articles and diagrams

KPA Motion Control 1.19. Added samples command line arguments

KPA Motion Control 1.18

KPA Motion Control 1.18. Added binary date check

KPA Motion Control 1.18. Support for licensing through a service on Linux

2024

KPA EtherCAT Master 2.6

KPA EtherCAT Master 2.6. Improvement of the mechanism for controlling the size of sent mailbox frames

KPA EtherCAT Master 2.6. Distributed Clocks offset calculation in chunks

KPA EtherCAT Master 2.6. Configuring a mode of ports controlling

KPA EtherCAT Master 2.6. INtime 7.1 support

KPA EtherCAT Master 2.6. Instrumented build

KPA EtherCAT Master 2.6. RTX64 4.5 support

KPA EtherCAT Master 2.6. Process Image Client overflow

KPA EtherCAT Master 2.6. Process Image Client invalidation

KPA EtherCAT Master 1.8

KPA EtherCAT Master 1.8. Xenomai 3.2 support

KPA EtherCAT Master 1.8/2.6. Remote access to license file (for Linux)

KPA EtherCAT Studio 2.12

KPA EtherCAT Studio 2.12. IO-Link protocol support

KPA EtherCAT Studio 2.12. Motion Configuration Utility enhancement

KPA EtherCAT Studio 2.12. Bootstrapper improvement

KPA Motion Control 1.17

KPA Motion Control 1.17. Installer for Windows OS

KPA Motion Control 1.17. Installer for Linux OS

KPA Motion Control 1.17. INtime 7.1 support

KPA Motion Control 1.17. Cam profile viewer

KPA Motion Control 1.16

KPA Motion Control 1.16. New function blocks: MC_GroupSetPosition, MC_GroupHalt

KPA Motion Control 1.16. KPA EtherCAT Master 2 support

2023

KPA Automation softPLC

KPA Automation softPLC 1.5. Scaling and Engineering unit mapping

KPA Automation softPLC 1.4. OPC UA Publish-Subscribe

KPA Automation softPLC 1.4. OPC UA File transfer

KPA Automation softPLC 1.4. Support of PROFINET

KPA Automation Server. OPC DA support

KPA Automation Studio. Indicator states

KPA EtherCAT Master 2.5

KPA EtherCAT Master 2.5. New reference designs with Vivado 2019.1

for Zynq UltraScale+ MPSoC ZCU104 with CPU A53/R5

KPA EtherCAT Master 2.5. PI variables validation of send/receive regions and

API calls to get information slave's PI variables

KPA EtherCAT Master 2.5. Errors handling for EEPROM errors service

KPA EtherCAT Master 2.5. Zynq Xenomai support and Hardware Integration Package

for Xilinx ZC702 Evaluation Board

KPA EtherCAT Master 2.5. QNX 7.1 support

KPA EtherCAT Master 2.5. INtime 7.0 support

KPA EtherCAT Master 2.5. Support for latest version of Windows 11 and Microsoft Visual Studio 2022

KPA EtherCAT Master 2.5. KPA Sentinel dongles for Linux-based OS

KPA EtherCAT Master 2.5. Support for Texas Instruments AM572x Industrial Development Kit (TMDSIDK572)

with using the PRU-ICSS sub-system

KPA EtherCAT Master 1.6/2.5. RTX64 4.4 support

KPA EtherCAT Studio 2.12

KPA EtherCAT Studio 2.12. Improved CANopen plug-in

KPA EtherCAT Studio 2.12. Invalid EEPROM overwriting

KPA EtherCAT Studio 2.12. SCI support

KPA EtherCAT Studio 2.12. Automatic detection and start of local Master

KPA Motion Control 1.15

KPA Motion Control 1.15. G-code parser

KPA Motion Control 1.15. Torque control

KPA Motion Control 1.15. Custom drive profile

2022

KPA Automation softPLC

KPA Automation softPLC 1.3. OPC UA Client

KPA Automation softPLC 1.2. SDK

KPA Automation softPLC 1.2. OPC UA Alarms & Conditions and Events

KPA Automation softPLC 1.2. MQTT

KPA Automation. 21 CFR Part 11 compliance

KPA EtherCAT Master 1.6. Support for Xilinx ZC702 Evaluation Board

KPA EtherCAT Master 1.6/2.4 INtime dongle binding

KPA EtherCAT Master 2.4

KPA EtherCAT Master 2.4. Support for Nano-PI target board

KPA EtherCAT Master 2.4. Autoconfigurator. FSoE

KPA EtherCAT Master 2.4 for RTX64. Support for NAL interface drivers

KPA EtherCAT Studio 2.11

KPA EtherCAT Studio 2.11. Dashboard

KPA EtherCAT Slave Stack. Support for Beckhoff FC1100 Board

KPA Motion Control 1.14**KPA Motion Proxy**

2021

KPA Automation 4.3

Alarm Library Service (ALS)

ALS Configurator

2020

KPA Automation Data Analytics

KPA Automation 4.2

KPA Automation softPLC

2019

KPA Automation Server

RPCClient SDK for Linux

KPA EtherCAT Master 2. Autoconfiguration

KPA Master Redundancy. Xilinx Zynq/US+ IP Cores

KPA EtherCAT Master 2. TimedSend mode

2018

KPA Master Redundancy patent (US 10.102.163 B2)

KPA Master Redundancy. Texas Instrument Sitara PRUSS

KPA Automation View

KPA Automation Studio

KPA EtherCAT Master, Virtual COM drive

KPA 4-CAN EtherCAT Gateway. Smart CAN filter

KPA EtherCAT Master. Virtual COM driver

KPA PCIe card. Cable Redundancy & Distributed clock

KPA EtherCAT Master 2. PI logger

- 2017 KPA Motion 1.2
Xilinx US+ (Ultrascale plus platform) with FreeRTOS
KPA EtherCAT Master 2.1
- 2016 KPA EtherCAT Slave, Ti C2000, PHYTEC Am335x
KPA Automation 3.21
KPA EtherCAT Master RTX64 3.0, RTX 2016, SYS/BIOS
KPA EtherCAT Master 2.0, VxWorks 7.0, Intime
KPA EtherCAT Studio 2.0, Studio development framework
- 2015 KPA EtherCAT Master for T-Kernel, Zynq, Cyclone
KPA EtherCAT Master Ti Sithara, Xenomai 3.0
KPA EtherCAT Master INtime 6, QNX 6.6, RTX 2014, RTX64, VxWorks 6.9
- 2014 KPA EtherCAT Master 1.6
- 2013 KPA Motion for EtherCAT
KPA 4-CAN EtherCAT Gateway
- 2012 Freescale, QNX, ISaGRAF and koenig-pa GmbH launch "PLC in a Box"
MDK for Xenomai
Concurrent's SIMulation Workbench™ Real-time Modeling Environment with KPA EtherCAT Master
- 2011 KPA EtherCAT Slave in embedded System
- 2010 Company re-branded as koenig-pa GmbH
KPA EtherCAT Stacks on Freescale Technology Forum 2010 – Orlando, FL
- 2009 Xenomai, QNX support
- 2008 KPA EtherCAT PCI Board, KPA EtherCAT PC104 Boards, INtime
- 2007 KPA EtherCAT Slave, RTX
- 2006 KPA EtherCAT Master for Linux
- 2005 KPA EtherCAT Studio for Linux
- 2004 Joining EtherCAT Technology Group (ETG)
- 1986 Foundation of König Prozeßautomatisierungs GmbH