KPA EtherCAT Studio

EtherCAT configuration tool

KPA EtherCAT Studio is a second generation of a user-friendly tool for EtherCAT bus configuration and diagnostics. This lightweight, high-performance standalone Windows application natively supports all the advanced features of KPA EtherCAT Master.

Benefits and key features

- **Meets EtherCAT Technology Group (ETG) standards**
  KPA EtherCAT Studio is compliant with EtherCAT Technology Group (ETG) standards and can create ENI (EtherCAT Network Information) files for EtherCAT masters from various vendors.

- **Extended Slaves Library**
  Slaves Library is a list of available ESI (EtherCAT Slave Information) files, which can be used to build up the project configuration. KPA EtherCAT Studio provides an opportunity to work with several Slaves Library collections, change an active collection by using a custom collection and manage Slaves Library view by setting user attributes for slaves.

- **Several feature package modifications**
  KPA EtherCAT Studio is delivered as a Basic, Standard, Premium or customized feature packages depending on customer's demands.

- **Available for integration**
  KPA EtherCAT Studio can be integrated into any custom application using SDF API (.NET, COM) or .NET Remoting.
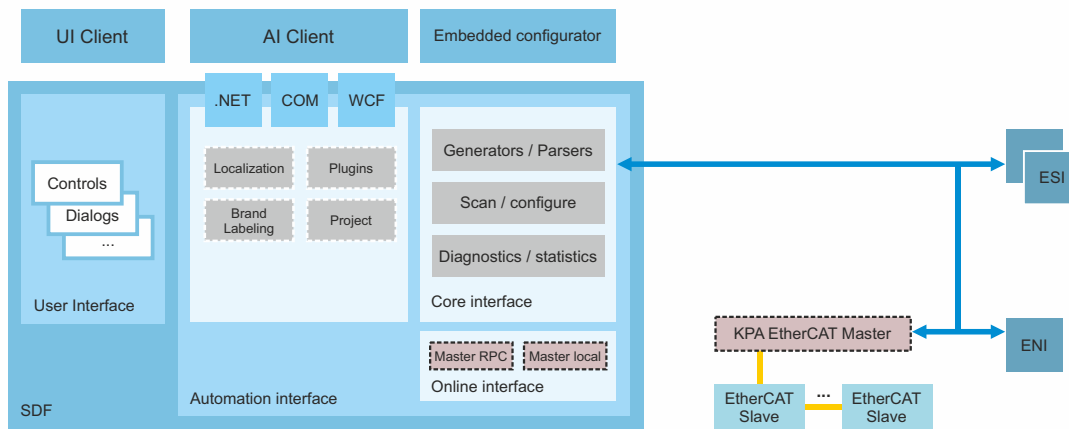
- **Customization of features in the package**
  In the delivered package, features can be activated or deactivated according to the customer need. Moreover, there is a possibility to customize brand data, such as a product name, logo, copyright and contacts.

- **Problem diagnostics**
  KPA EtherCAT Studio includes system problem diagnostics, which provides clear data interpretation for further successful problem solving.

Studio Development Framework architecture and integration

Feature packages

Features	Basic	Standard	Premium
Studio			
Scaling Signal Values	●	●	●
Automation interface	–	●	●
Slaves Library	●	●	●
Studio/Emergency Output	●	●	●
Watch Viewer	●	●	●
Master Output	–	●	●
Plug-ins for configuring specific devices			
CANopen Master/Slave (EL6751)	●	●	●
Profibus slave (El6731)	●	●	●
Bridge terminals (EL6692/EL6695)	●	●	●
Modular Devices	–	●	●
Virtual Serial COM	–	–	●
MDP Profibus Master Gateway Profile 3100	○	○	○
Tools			
Topology Viewer	●	●	●
Snapshot Viewer	●	●	●
Chart Viewer	●	●	●
Diagnostic scanner	●	●	●
S2S Communication Editor	●	●	●
EEPROM Editor	–	●	●
Comparing tools	–	–	●
Data logging tools	–	–	●
Common			
DC	●	●	●
Tasks/Sync Units	●	●	●
Power calculation via LVDS	–	–	●

Features	Basic	Standard	Premium
Master			
Cyclic Commands	●	●	●
ENI Export	●	●	●
External task	●	●	●
PI Alignment	–	●	●
Master Watchdog	–	●	●
Master Mailbox. AoE	–	●	●
Master Mailbox. EoE	–	●	●
ENI Export. XSLT Scheme support	–	●	●
Cable Redundancy	–	–	●
Slave			
Slave Mailbox. CoE	●	●	●
Slave Mailbox. FoE	●	●	●
Slave Watchdog	–	●	●
Slave Mailbox. AoE	–	●	●
Slave Mailbox. EoE	–	●	●
Slave Mailbox. SoE	–	●	●
Configuring Init Commands	–	●	●
FMMU/SM	–	●	●
Direct Memory access	–	●	●
Direct EEPROM access	–	●	●
Explicit identification	–	●	●
Hot Connect	–	–	●

● Included in the delivery set
– Not included in the delivery set
○ May be included in the delivery set

Custom Development

koenig-pa GmbH offers specific software development for customers who require additional support for integrating EtherCAT capabilities into their applications or solutions.

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