KPA Automation softPLC (based on straton® PLC core)

KPA Automation softPLC Embedded Tools
Software components for embedded platform

Focused on IEC 61131-3, KPA Automation softPLC technology is designed for all automation solutions, from machinery, controllers and drives manufacturers, to system integrators and machine builders. This technology is based on straton® PLC core and fulfils the 4 key requirements we apply to our products: Small, Smart, Simple and Speedy.

- **Simplify the configuration**
  KPA Automation softPLC Integrated Development Environment (IDE) includes a hardware device and fieldbus configuration tool for various kinds of networked I/Os or protocols, and enables to describe networks as configuration trees and to wire variables to the I/O channels of hardware devices.

- **Secure applications - Redundant System**
  All key application information is stored in one unique block of memory and all the redundancy mechanisms are available to make a hot restart of the application. A standard redundant implementation through Ethernet is delivered with PLC engine of KPA Automation softPLC, using a proprietary protocol over the link that needs no specific programming or configuration.

- **Reduce engineering time**
  KPA Automation softPLC project automation tool allows you to automate the import/export of information from your databases or other tools directly into the application (variable definitions and I/O configurations but also application programs generated automatically or copied from existing templates).

- **IEC 61131-3 standard programming**
  KPA Automation softPLC development environment is a set of powerful text and graphic editors for IEC 61131-3 languages: Sequential Function Chart (SFC), Function Block Diagram (FBD), Ladder Diagram (LD), Structured Text (ST) and Instruction List (IL).

- **Commissioning - Debugging**
  KPA Automation softPLC provides built-in simulation within the development environment in various modes of operation such as cycle by cycle, step by step, breakpoint and console mode.

- **Softscope**
  An integrated scope using a real-time high-speed protocol can be configured to monitor key variables within the application to provide detailed debug information with high precision.

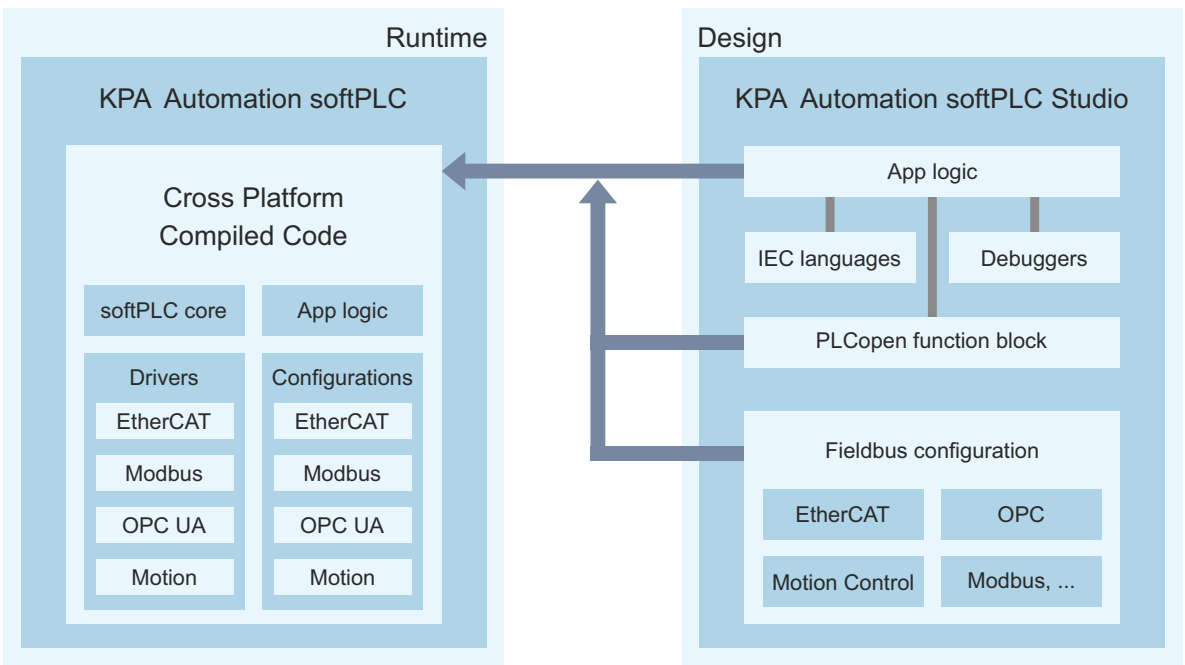
- **Distributed Application**
  PLC engine of KPA Automation softPLC permits real-time exchanging of data among different runtime systems through Ethernet. The event based protocol technology is used and it ensures high performance and very low network traffic at runtime.

Communication

KPA Automation softPLC supports a wide range of industry standard protocols for various sectors and application areas including automotive, building automation and energy: OPC UA (Server and Client), Modbus (Master and Slave, both TCP and serial), EtherCAT (Master and Slave), PROFINET Controller.

Solutions

- Energy
- Motion Control and Drives
- Science and Education
- IEC 61131-3 embedded
- Gateway
- Fieldbuses
- IoT connectivity



Custom Development

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

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