

Kuhnke FIO Controller 116

Control Technology

Modular CODESYS PLC

The Kuhnke FIO Controller 116 is a modular, ARM-based PLC with integrated CODESYS V3 controller and an i.MX6 SoloX processor from Freescale with 1 GHz clock speed. It is used to implement independent control and automation tasks in machines and systems.

The control system can be expanded with EtherCAT I/O modules from the Kuhnke FIO Line via the E-Bus connection on the side. An extender module can also be used to control external EtherCAT SubDevices. Ethernet, CAN and RS232 enable communication via OPC UA, CANopen, Modbus TCP and Modbus RTU.

An SD card slot and a USB interface are used for local storage of process data and program transfer.



Features

- Fanless ARM processor technology
- To be extended with FIO modules
- CODESYS V3 with EtherCAT®
- Optional: CODESYS SoftMotion
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Technical Data	Kuhnke FIO Controller 116
Processor	i.MX6 SoloX Freescale 1 GHz
RAM / non volatile memory	256 MB / 128 kB storage in Flash
Drive	256 MB internal Flash memory, SD(HC)-card slot
Software	Application: CODESYS V3 Soft SPS optional with SoftMotion WebVisu and SoftMotion CNC + Robotics on request
Interfaces	1 x RS232, 1 x USB 2.0, 1 x CAN (galvanically isolated)
Network	1 x Ethernet 10/100 Mbit – RJ45, OPC UA (Server)
Field bus interface	CANopen® Manager Modbus TCP Client (via Ethernet) und Modbus RTU Client (via RS232) EtherCAT® internal via E-Bus-Interface, external via Extender module
Integrated I/Os	1 x DI 1ms
Housing (W x H x D)	Aluminium frame, plastic 25 x 120 x 90 mm
Mounting	35 mm DIN Rail
Supply voltage	24 V DC / (19.2 ... 28.8)
Power consumption	approx. 3.5 W (@ 24 V DC)
Operating temperature	0 °C...+55 °C
Cyber Security, CRA	In Progress
Approvals / Standards	CE (Industry), cULus, IEC 61131-2, IEC 61000-6-4, IEC 61000-6-2



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