Kuhnke FIO Controller — Control Technology

Kuhnke FIO Controller 116

Mini IPC Controller

The Kuhnke FIO Controller 116 is a mini-IPC basing on ARM with integrated CODESYS PLC. It is able to exchange data with other systems via industrial Ethernet and RS232. In addition, a built-in SD-card slot and a USB-interface allow local storage of process data. As far as mechanic properties and form factor are concerned, the controller matches the FIO I/O modules, which can be attached directly to form a mechanically and electrically homogenous unit. It can be easily integrated by the number of interfaces (Industrial Ethernet, RS232, CAN), supported fieldbuses and attachable communication modules into existing control concepts. The Controller 116 always supports Modbus TCP and RTU master functionality. By using an additional extender module, the control of remote EtherCAT slaves is possible, too.

Features

- Fanless ARM processor technology
- To be extended with FIO modules
- CODESYS V3 with EtherCAT®
- Optional: CODESYS SoftMotion

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® Master Modbus TCP Master (via Ethernet) und Modbus RTU Master (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)	
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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