

## Kuhnke FIO Controller

## Control Technology

### Kuhnke FIO Controller 116 Mini IPC Controller

The Kuhnke FIO Controller 116 is a modular ARM-based PLC with integrated CODESYS V3 controller. An SD card slot and a USB interface enable local storage of process data and program transfer.

Via the lateral E-Bus connector, the FIO Controller 116 is modularly expandable with EtherCAT I/O modules of the Kuhnke FIO Line. When using an extender module, control of external EtherCAT slaves is additionally supported.

The FIO Controller 116 supports Industrial Ethernet, RS232 and CAN and is operable as a Modbus TCP and Modbus RTU client as standard. Additional communication paths are realisable through interface and bus modules, facilitating integration into existing control architectures.

For machine operation, Kuhnke recommends the Vico operator panels with CODESYS HMI option.



#### 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® 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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