

FIO Controller 328 APP

Control Technology

Modular CODESYS control

The FIO Controller 328 impresses with a powerful quad-core ARM A72 processor (1.5 GHz) and passive cooling. With extensive memory and an integrated mini UPS, it is perfectly suited for CODESYS PLC applications of all kinds and offers state-of-the-art technology for industrial requirements.

The FIO controller can be flexibly expanded with EtherCAT I/O modules from the Kuhnke FIO series via the E-bus connection on the side. Additional decentralised EtherCAT devices are connected directly to the FIO Controller 328 via the EtherCAT OUT connection.

The industrial Raspberry Pi-based controller is equipped with the innovative FLECS Core. This combination enables machine builders to conveniently and securely download and manage additional automation apps for their machine controllers.



Properties

- Powerful CODESYS PLC (motion and robotics...)
- Direct expansion with FIO I/O modules via E-bus (EtherCAT)
- EtherCAT OUT (RJ 45) for decentralised EtherCAT devices
- Expansion interface LAN or EtherCAT slave
- Prepared for automation apps from the FLECS Marketplace



Technical data	FIO Controller 328
Design	Modular CODESYS control for the control cabinet
Prozessor	Raspberry Pi CM 4 (Quad -core ARM Cortex A72 (1,5 GHz))
RAM / Remanent memory	2GB DDR4L / 128 kB / 256 Byte EEPROM
Drives	eMMC memory 8 GByte, µSD(HC) card slot up to 32 GByte
Graphic interface	HDMI interface, 3840 x 2160p @ 60 Hz (4K)
Software options	WebVisu, SoftMotion (CNC-Robotics) Prepared for automation apps from the FLECS Marketplace
Interfaces	2x USB 3.2 / 1x USB 2.0, 1x E-Bus Verbinder, EtherCAT out 1 x EtherCAT- Slave – (2 x RJ45) oder 2 x LAN 10/100MBit/s RJ-45 (SW)
Networks	2 x Ethernet 10/100/1000 Mbit – RJ45 (SW) +
Fieldbus support	EtherCAT Master, Modbus TCP Master, Optional: Modbus RTU Master, CANopen Master, PROFINET Slave, EtherCAT Slave
Data exchange	OPC UA
Outer dimension (W x H x D)	55 x 125 x 105 mm (without plug and mounting plate)
Housing	IP 20, stainless steel, aluminium heat sink, mounting on 35 mm mounting rail
Operating temperature	0 ... 55°C
Power supply	24 V DC / (19,2 ... 28.8), 1 s mini UPS

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