

## 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
<b>Design</b>	Modular CODESYS control for the control cabinet
<b>Processor</b>	Raspberry Pi CM 4 (Quad -core ARM Cortex A72 (1,5 GHz))
<b>RAM / Remanent memory</b>	2GB DDR4L / 128 kB / 256 Byte EEPROM
<b>Drives</b>	eMMC memory 8 GByte, µSD(HC) card slot up to 32 GByte
<b>Graphic interface</b>	HDMI interface, 3840 x 2160p @ 60 Hz (4K)
<b>Software options</b>	WebVisu, SoftMotion (CNC-Robotics) Prepared for automation apps from the FLECS Marketplace
<b>Interfaces</b>	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)
<b>Networks</b>	2 x Ethernet 10/100/1000 Mbit – RJ45 (SW) +
<b>Fieldbus support</b>	EtherCAT Master, Modbus TCP Master, Optional: Modbus RTU Master, CANopen Master, PROFINET Slave, EtherCAT Slave
<b>Data exchange</b>	OPC UA
<b>Outer dimension (W x H x D)</b>	55 x 125 x 105 mm (without plug and mounting plate)
<b>Housing</b>	IP 20, stainless steel, aluminium heat sink, mounting on 35 mm mounting rail
<b>Operating temperature</b>	0 ... 55°C
<b>Power supply</b>	24 V DC / (19,2 ... 28,8), 1 s mini UPS

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