

## FIO Controller 328 LAN

## Control Technology

### Modular CODESYS controller

The rugged, passively cooled FIO Controller 328 is equipped with a powerful Raspberry Pi CM 4. The generous storage equipment, including an area for remanent data and a mini UPS, is ideally suited for CODESYS PLC applications. The USB 3.0 interfaces allow the use of removable storage devices or external peripherals.

OPC UA is available as an IOT protocol for data exchange with other systems.

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 decentralized EtherCAT subscribers are connected directly to the FIO Controller 328 via the EtherCAT OUT connector.



### Properties

- Powerful CODESYS PLC (Motion and Robotics...)
- Rugged hardware with powerful Quad Core ARM-A72
- HDMI Screen Interface
- Direct expansion with FIO I/O modules via E-Bus (EtherCAT)
- 0°C... +55 °C without power reduction, with fan up to +60 °C
- EtherCAT OUT (RJ 45) for decentralized EtherCAT participants



Specifications	FIO Controller 328 LAN
<b>Design</b>	Modular CODESYS control for the control cabinet
<b>Processor</b>	Quad -core ARM Cortex A72 (4 x 1.5 GHz), Raspberry Pi 4
<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 × 2160p @ 60 Hz (4K)
<b>Software Options</b>	WebVisu, SoftMotion (CNC-Robotics), Safety
<b>Interfaces</b>	2x USB 3.2 / 1x USB 2.0, 1x E-Bus connector, EtherCAT out
<b>Networks</b>	1 x Ethernet 10/100/1000 Mbit – (2 x RJ45 (switched))
<b>Extension (left)</b>	1 x Ethernet 10/100MBit/s (2 x RJ45 (switched))
<b>Fieldbus support</b>	EtherCAT Master, Modbus TCP Master,
<b>Data exchange</b>	OPC UA
<b>External Dimension (WxHxD)</b>	45 x 125 x 90 mm (without plug and mounting plate)
<b>Case</b>	IP 20, stainless steel, aluminium heat sink, mounting on 35 mm DIN rail
<b>Operating temperature</b>	0°C... +40°C without power reduction, with fan up to +55°C
<b>Power supply</b>	24 V DC / (10.8 ... 28.8), 1 s mini UPS
<b>Cyber Security, Compliance</b>	In preparation
<b>Certifications &amp; Standards</b>	CE/IEC 61131-2, IEC 61000-6-4, IEC 61000-6-2

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