Sontheim

eControl micro II

The PLC controller for IoT applications

eControl micro II

Compact and powerful PLC with scalable CPU and high-resolution 7" touch display. IoT-ready and flexible use due to a high number of powerful and standardized interfaces.

Key Features

OPC UA	**OPC UA**
CODESYS	**CODESYS V3.5 acc. to IEC 61131-3**
EtherCAT	**EtherCAT acc. to IEC 61131-3**
CAN	**CAN acc. to ISO 11898**
	7" TFT display with capacitive touch
WLAN	**WLAN optional**
	Bluetooth optional
CE	**CE certified**

At a glance

Equipped with an OPC UA server the use for IoT applications is possible independent of manufacturer, platform and fieldbus, making the controller universally usable. The PLC has a scalable CPU that has been specially optimized for CODESYS target and web visualizations. A capacitive touch display makes operation user-friendly through high accuracy and multi-touch capability. A variety of interfaces – such as Ethernet, Bluetooth, WLAN, USB, CAN, EtherCAT and digital In- and Outputs – complete the package.

Benefits

- Compact, powerful and scalable
- Fast and easy integration of IoT applications
- User-friendly and standardized
- High functionality due to OPC UA and CODESYS
- Manufacturer-independent software management to reduce maintenance efforts
- Variety of interfaces for a wide range of automation applications

Technical data

CPU	Single Core mit 1,0 GHz Optional: Dual und Quad Cortex-A9 (1,2 GHz)
RAM	up to 1 GB
Memory	4 GB
Expandable memory	SD card up to 64 GB
TFT display	7"
Resolution	1024×600
Touch	capacitive
Ethernet	10/100 Mbit/s
USB	2× USB 2.0
CAN	1× CAN interface acc. to ISO 11898, galv. isolated
EtherCAT	1× RJ45
Serial interface	1× RS 232
Digital input (optional)	4× DI, 24 V, max. input current 10 mA
Digital output (optional)	4× DO, 24 V, max. output current 1 A
Real time clock	integrated (buffered)
Protection class (front)	IP54
Protection class (back)	IP20
Dimensions	220 mm × 280 mm × 10 mm (without plug)
Storage temperature	0 °C up to +60 °C
Operating temperature	+5 °C up to +50 °C
Temperature sensor	integrated
Humidity	5 % up to 95 % non-condensing
Power supply	24 V DC ±20 %
Operating system	Linux

Pin assignment

RJ 45 Ethernet

1	LAN/EtherCAT_TX+
2	LAN/EtherCAT_TX−
3	LAN/EtherCAT_RX+
4	–
5	–
6	LAN/EtherCAT_RX−
7	–
8	–

CAN

1	CAN L (high)
2	CAN H (low)
3	CAN GND
4	–
5	–
6	–
7	CAN GND
8	–

IO clamp (optional)

1	24V_IO
2	0V_IO
3	DI1
4	DI2
5	DI3
6	DI4
7	DO1
8	DO2
9	DO3
10	DO4

RS232

1	–
2	RxD
3	TxD
4	–
5	–
6	–
7	–
8	–
9	GND

USB

1	USB 5V
2	USB D−
3	USB D+
4	USB 0V

Power Supply

1	24V
2	0V
3	GND

Application example automation

IoT applications can be implemented with the state-of-the-art controller independently of the manufacturer and thus easily. The integration of OPC UA and CODESYS, among others, makes this possible.
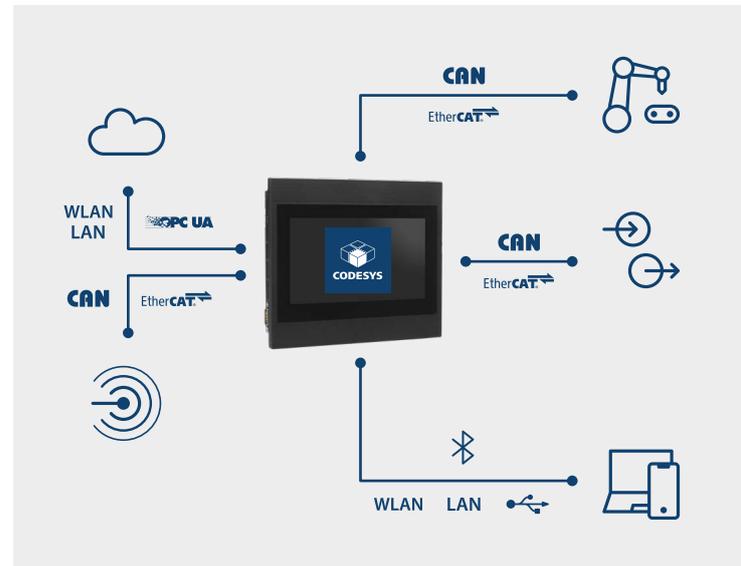
Order information

V966372000	eControl micro II

Mobile Automation

Industrial Automation

Diagnostics

Connectivity

We are looking forward to your enquiry!

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