

Technical features

Touch PLC Series



The logical enhancement of our modular system is the integrated control functionality in a powerful Touch Panel. Equipped with a high-performance i.MX8 M Plus CPU, the system is ideally suited to run CODESYS Control V3 Runtime, CODESYS Web/TargetVisu and other applications in parallel.

Benefit from our many years of experience in the development and production of powerful Touch Panel PCs. You receive solutions with optimally matched components for smooth machine operation and **machine control**.

Advantages of the Touch PLC series at a glance:

- **Cost optimization** by integration of the PLC in the Touch Panel
- Optimal use of limited space in the control cabinet
- Numerous display diagonals from 7 to 24 inches
- Individual configuration through interface extensions and memory upgrades
- **Development and production in Germany**
- NVRAM for storage of persistent data
- Integrated UPS for reliable data storage and safe control operation (e.g. in case of power interruption)
- **CODESYS support directly from the manufacturer**
- Touch PLC series can be combined with the entire Christ Touch Panel portfolio
- Touch Panel controls can be read directly into the PLC (no wiring required)

Possible fieldbus technologies

- **CANopen Manager**
- **EtherCAT Master**
- **EtherNet/IP Scanner**
- **PROFINET Controller**
- **Modbus TCP Master**
- **Modbus Serial Master**
- **OPC UA Server**

Many already integrated in the standard scope of delivery.



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Technical specifications:

CODESYS:

Version: V3

Development environment: IEC 61131-3

Visualization: WebVisu / TargetVisu / WebVisu & TargetVisu (license dependent)

Display:

7 - 24 inch, from 13.3 inch also available in Full HD

Resolution: 800 x 480 up to 1920 x 1080 Full HD

LED Lifetime: 50k h

System:

CPU: NXP® i.MX 8M Plus QuadCore (1.35 GHz or 1.8 GHz; license dependent)

TPM 2.0: Infineon SLB9670

NVRAM: 128 kB

RTC: RV-8803-C7 (±5 ppm)

RAM: 1 GB DDR4

Primary Mass Storage: eMMC, 8 GB

USB 3.0 Host: 2 (Type A, bottom)

Ethernet 10/100/1000-BaseT: 2 (RJ45)

RS232 | RS485 | CAN (galvanic isolated): 1 (Sub-D)

Operating Temperature: 0 to 50°C

Cooling: Passive (fanless)

IP Class: IP65 Front / IP20 Rear

Power: 24 VDC ± 30%

Reset Button: Yes (bottom)

USV: Yes (internal, for system use)

Run/Stop Switch: Yes (illuminated, bottom)

Service Button: Yes (bottom)

Power/Error/User LED: Yes (RGB-LED, bottom)

Extensions:

Memory expansion: 2GB DDR4 + 16 GB eMMC

USB 2.0

Ethernet (100 Mbit)

CAN

RS232

RS485

Digital inputs and outputs

