

# CU CONTROL UNIT 5X

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## Universal, robust industrial PC with scalable performance

- ▶ Based on Intel Atom® Dual or Quad Core™ processor
- ▶ Expansion connector for the realization of individual modules
- ▶ Industrial grade, 10 year availability
- ▶ Fanless compact design for DIN rail, mounting in portrait or landscape format
- ▶ Optionally CODESYS SoftPLC with EtherCAT, PROFINET, Modbus, CANOpen fieldbus protocols

POSSIBILITIES START HERE



# CU CONTROL UNIT 5X

Smart, Fanless, Compact

This powerful control unit series combines an industrial grade design with multiple mounting options and the possibility for individual extensions. This series is based on the long-term available Intel Atom® Dual or Quad Core™ processor and offers high performance in a small space. The Control Unit 5X family is ideal for individual control and gateway application for example in a control cabinet. The Control Unit 5X devices offer numerous interfaces and fieldbus protocols that allow connection to a wide variety of

devices. The control units can be delivered with CODESYS SoftPLC development tools for fast and efficient implementation of sophisticated automation and visualization solutions.

The control units have been designed as long available devices (> 10 years) and can also be customized and optimized to your individual requirements.

## ▶ TECHNICAL INFORMATION

		CU CONTROL UNIT 5X	CU CONTROL UNIT 5X MINI
PROCESSOR	CPU	Intel Atom® E3800 2-4 Cores™ 2 Core™ 1.33 GHz /4 Core™ 1.91 GHz	Intel Atom® E3800 2-4 Cores™ 2 Core™ 1.33 GHz /4 Core™ 1.91 GHz
MEMORY/STORAGE	DRAM DDR3L EMMC SRAM/FRAM SD-CARD	2/4 GByte, SO-DIMM slot 16/32 GByte -/128 kByte microSD-slot (up to SDXC-format)	2/4 GByte, SO-DIMM slot 16/32 GByte -/128 kByte microSD-slot (up to SDXC-format)
INTERFACES	USB ETHERNET  HDMI CAN SERIAL PORTS	2x USB 2.0 (Host) 2x Ethernet (10/100/1000) independent  1x HDMI Type C 1x CAN (isol.) 1x RS232, 1x RS485 (isol.), Profibus	2x USB 2.0 (Host) 2x Ethernet (10/100/1000) independent  1x HDMI Type C -
OTHERS	CONTROL WATCHDOG RTC BIOS	Power button, programmable status LED External Watchdog, programmable Battery buffered RTC UEFI BIOS	Power button, programmable status LED External Watchdog, programmable Battery buffered RTC UEFI BIOS
MECHANICAL	CONSTRUCTION COOLING DIMENSION (HxWxD)  WEIGHT MOUNTING	IP20, stainless steel Fanless 185.6 x 92 x 38.2 mm (without connectors and rail clamp) 0.66 kg For mounting on 35 mm mounting rail acc. To EN 60715	IP20, stainless steel Fanless 108 x 91 x 36.2 mm (without connectors and rail clamp) 0.39 kg For mounting on 35 mm mounting rail acc. To EN 60715
ENVIRONMENT	POWER POWER CONSUMPTION  EMC  SHOCK (EN 60068-2-27) VIBRATION (EN 60068-2-6) OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY ALTITUDE	24 VDC ±20 % Typ. 3.6 W to 30 W (depending on processor load and interface activity) EN 61000-6-2 (immunity) EN 61000-6-4 (emission) n.a. n.a. 0 °C ... +55 °C -20 °C ... +70 °C 10 %-90 % @ 39 °C, non-condensing Up to 9.800 ft (3000 m)	24 VDC ±20 % Typ. 3.6 W to 24 W (depending on processor load and interface activity) EN 61000-6-2 (immunity) EN 61000-6-4 (emission) n.a. n.a. 0 °C ... +55 °C -20 °C ... +70 °C 10 %-90 % @ 39 °C, non-condensing Up to 9.800 ft (3000 m)
SOFTWARE	OPERATING SYSTEM  SOFTPLC (OPTION) PROTOCOLS (OPTION)	Linux Debian Microsoft Windows 10 IoT Enterprise CODESYS V3, Target Visu, Web Visu EtherCAT, Modbus TCP/RTU, Profinet, Profibus, Ethernet IP, CANopen, OPC UA, IIoT Libraries (MQTT, HTTPS; Azure, AWS, Google..)	Linux Debian Microsoft Windows 10 IoT Enterprise CODESYS V3, Target Visu, Web Visu EtherCAT, Modbus TCP, Profinet, Ethernet IP, OPC UA, IIoT Libraries (MQTT, HTTPS; Azure, AWS, Google..)
APPROVALS	CERTIFICATIONS	CE, UL 61010-1 & UL 61010-2-201	CE, UL 61010-1 & UL 61010-2-201

## ▶ YOUR CONTACT

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