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ICU-M5 BlueLine²

industrial controller unit, high performance



The ICU-M5 card is a high-performance processor card which can be used as a central processor card in GA **BlueLine²** automation systems. It is equipped with four fast ethernet ports and two serial communication ports. Open communication protocols allow easy integration into any control concept.

Features

- IEC 61131-3 standard control functions
- low program execution time, approx. 500µs msec per complex closed-loop control function
- all analog control functions with floating point, allowing very precise computations with virtually no loss of precision
- highly flexible voting and tracking functionality
- open communication with Modbus RTU and Modbus TCP
- Ethernet communication between ICUs in redundant systems
- online changing of control parameters and reprogramming, without interrupting the control process
- online diagnostics
- data logging and alarm management directly on ICU (optional)

Technical data

- high performance ARM processor with up to 1.5 GHz system clock
- **ICU-M5** with 2.5MB cache memory and 2 GB main memory
- 8GB eMMC for operating system
- 8 GB CFast Flash memory for firmware and application software
- 2x 100 MBit/s Ethernet via Backplane
- 2x 100Base-T Ethernet ports at front
- 1x RS232 at front (optional 2x RS232)
- 1x RS485 at front (galvanically isolated) optional
- execution monitoring (window watchdog)
- temperature- and voltage monitoring
- no active fan
- hot replaceable
- multi master capability for master / hot-standby CPU redundancy

- dimensions: 4TE, 3HE, 175mm (WxHxD)
- operating temperature range: -20 ... 65°C
- relative humidity: 10 ... 90 %, non-condensing
- shelf life: unlimited

- applied standards:
  IEC 61131-2, EN 50178, EN 50155, EN 50156, IEC 61326, EN 50130, EN 61373

DATASHEET