Control Unit

µMIC.200

Most robust, fast, secure. To be programmed with Node-RED or in C/C++.

This freely programmable control unit **µMIC.200** is equipped with an ARM Controller which may be clocked to a maximum of 1 GHz. The module provides 512 MByte RAM as well as 4 GByte Flash memory which may be extended by a microSD-Slot. Its maximum power consumption is 4 Watts.
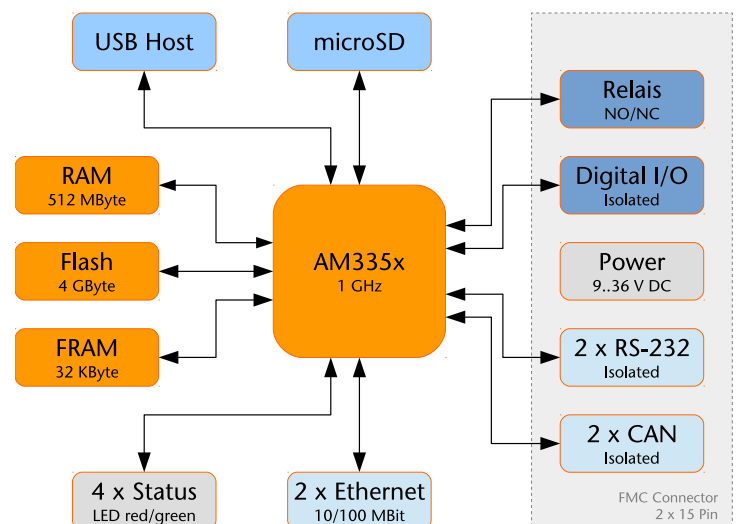
The control unit can communicate with peripheral devices via double Ethernet, CAN or serial interfaces. Additional peripherals (e.g. WLAN adapter) may be conntected via USB.

Equipped with eight configurable digital in-/outputs, a relay, four freefly controllable LEDs and a real-time clock the **µMIC.200** may be used in a multitude of different applications.

Features

- 2 x Ethernet interface (IEEE 802.3)
- 2 x CAN interface (isolated)
- 2 x RS-232 interface (isolated)
- Real-time clock (buffered without battery)
- Cortex-A8 CPU with 1 GHz clock frequency
- 4 GByte Flash and 512 MByte DDR3 RAM
- FRAM memory for remanent data
- Memory extendable via microSD card
- Power supply voltage 9..36 V DC
- Operating temperature -40 °C..+85°C
- Max. power consumption max. 4 Watt
- Real-time Linux operating system (Kernel 4.1.18)
- Integrated CANopen Master functionality

MicroControl GmbH & Co. KG · Junkersring 23 · 53844 Troisdorf · Germany · Fon +49 (0) 2241 256 59 - 0 · Fax +49 (0) 2241 256 59 - 11 · info@microcontrol.net

I/O Module   Steuerungen   Protokollstacks   Dienstleistungen   www.microcontrol.net

Technical Data	µMIC.200
Power supply voltage	9..36 V DC, reverse polarity protected COMBICON plugs
Power consumption	max. 4 W
Potential isolation	CAN / control voltage: $1kV_{eff}$ RS-232 / control voltage: $1kV_{eff}$
Operating temperature	-40 °C..+85 °C
CPU	1 GHz Sitara™ ARM® Cortex®-A8 32-Bit RISC Processor
Memory	512 MByte DDR3 RAM / 4 GByte Flash / microSD card slot 32 KByte FRAM
Ethernet	Two 10/100 Mbps Ethernet IEEE 802.3 RJ45 connectors
CAN	Two CAN / CAN 2.0A and 2.0B, 50 kBit/s .. 1 MBit/s COMBICON plugs
RS-232	Two serial RS-232 interfaces, COMBICON plugs
USB Host	USB 2.0 Port for connection of various USB devices
Realtime Clock	Buffered via capacitor, buffer time approx. 300h
I/O signals	Eight digital I/O, input / output configurable via software, max. 1 A per output, one relay (changeover), 250 V AC, 5 A
Protection class	IP20
Casing	Alu/plastics DIN-rail casing 61.8 x 68.6 x 105.0 mm (B x D x H)
EMC	EN 61000-6 compliant
Operating system	Linux, Kernel 4.1.18

Item number	Designation
200.00.005	µMIC.200 Freely programmable control unit for DIN-rail mounting in metal casing. The ARM based platform is programmed with Node-RED or in C /C++.