

MEC2

DIN-Rail Embedded Controller

Datasheet



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Technical Data

General

- No rotating parts

Processor

- Intel Atom 1.46 GHz processor, fanless

Dynamic memory

- DDRIII RAM, max. 4,096 MByte

Additional modules (optionally)

- PROFIBUS (master / slave)
- PROFINET (master / slave)
- Wireless GPRS/UMTS cellular modem
incl. antenna and SIM socket

Standard system I/O outlet

- 4 x 9-pin D-SUB male for RS-232/422/485
- 1 x CompactFlash
- 2 x LAN RJ-45 10/100/1000 Base-T
- 2 x USB
- 1 x 15-pin D-SUB female for VGA

Further system I/O interfaces (optionally)

- PROFIBUS DP interface
DP master or DP slave
 - Max. 125 slaves
 - 1 x RS-485, DB9 male connector
 - Potential-free
 - 9,6 Kbit/s to 12 Mbit/s
 - Inputs and outputs: max. 244 Bytes per slave
 - DPV0 / DPV1 Class1 & Class 2
- PROFINET IO interface
master (IO controller) or slave (IO device)
 - Max. 128 server (IO device)
 - 2 x industrial Ethernet, RJ45 female connector
 - Potential-free
 - 10BASE-T/100BASE-TX
 - Inputs and outputs: max. 1440 Bytes per server
 - IO device V3.5.35 – V3.5.x

Diagnostic LEDs

- Power
- Software state (CPU-LED)
- Link and activity for LAN interfaces
- Transmit and receive LEDs for RS-232 interfaces (COM 1 to COM 4)
- PROFIBUS (STA, ERR)
- PROFINET (SF, BF, LINK, RX/TX)

Mass storage

- CompactFlash, Industrial – Grade
- Removeable flash card
- SLC NAND
- No moving parts
- Max. 64 GB storage capacity supported
- Shock: 1,000 G max.
- MTBF > 4,000,000 h
- Bad block scanning/handling
- Wear leveling system
- ECC
- 2,000,000 write/erase cycles

Vibration endurance

- 2g@5-500Hz, amplitude 0.35mm (operation/storage/transport)

Wireless industrial cellular modem (optionally available)

- Wireless GPRS/UMTS cellular modem module incl. antenna and mini SIM socket
- Five Bands UMTS/HSPA+ (WCDMA/FDD) (850/800, 900, 1900 and 2100 MHz), Quad-Band GSM (850/900/1800/1900 MHz)
- HSDPA Cat. 10 / HSUPA Cat.6 data rates: DL: max. 14.4 Mbps, UL: max. 5.76 Mbps
- EDGE class 12 data rates: DL: max. 237 kbps, UL: max. 237 kbps
- GPRS class 12 data rates: DL: max. 85.6 kbps, UL: max. 85.6 kbps

Additional functions

- Battery buffered real time clock (RTC)
- Watchdog

Power supply

- 12 - 24 V DC ($\pm 20\%$) / 15. W max. (depending on the used type)

Standards

- CE, FCC

Housing

- Aluminum and steel chassis, including clip for mounting on a 35 mm DIN-Rail
- Protection class: IP40

Dimensions

- 48 x 155 x 110 mm (W/H/D)

Weight

- 1 kg

Operating environment

- Operating temperature: -20°C – 70°C (-20°C - 50°C with PROFIBUS/PROFINET)
- Storage temperature: -40°C – 85°C
- Relative humidity: 5 % to 95 % non-condensing