

Control Units

PCU04.10

Processor Unit, type PC



1.4₁₀

- Processor unit with passive cooling, compatible with standard PC
- 3,5" main board PC with integrated peripherals
- CPU Intel Celeron J1900 2GHz
- DDR3L SODIMM 1333MHz max. 8GB
- CompactFlash card slot
- 3x RS232, 3x USB 2.0, 1x USB3.0
- 2x Ethernet 10/100/1000 Mbit/s
- VGA max. resolution 2560 x 1600, 60Hz
- HDMI max. resolution 1920 x 1200, 60Hz
- Real-time clock
- WatchDog
- Protection IP20
- **Extension**
- SSD 2,5"
- 2 galvanically insulated converters RS232/RS485 or RS232/RS232
- 1x slot miniPCIe
- Holder for side-wall mounting



Basic characteristic:

PCU04.10 is a processor unit fitted with low power processor with passive cooling. It consists of a 3.5" processor board with integrated peripherals (graphic card, 5x USB2.0, 1x USB3.0, 2x Ethernet, 4x RS232, etc...), fitted with Intel Celeron J1900 2GHz. The unit can be variably fitted with SSD 2.5" and with CompactFlash. If there is a galvanic isolated communication RS485 (RS232) requested, it is possible to fit the unit with up to 2 RS232/RS485 (RS232/RS232) converters.

A big advantage of the PCU04.10 processor unit is the passive cooling which warrants a high durability in industrial environment. The unit is built into a metal case and is mounted through 4 holes in the cooling board. For variable mounting, a holder can be supplied.

Standard version of the unit is supplied without an operating system.

The unit was built as an electrical device, class III according to ČSN EN 330600.

Technical data:

Dimensions	250 x 170 x 55 mm
Ambient temperature	0°C - 50°C (-25°C - 65°C on request)
Supply current	20 – 35 VDC
Required protection	Tube fuse T 2A
Power take-off	Max 1,1A, if supply voltage is 24V without external devices consumption
Weight	1,3 kg
Mounting	Vertical, supply connector at the bottom (see the picture)
Operation	Continuous
Operating ambience	Industrial, non air-conditioned, without aggressive gasses and steam
Protection	IP20
Processor	Intel Celeron J1900, 2GHz
Memory	DDR3L SODIMM - 1333MHz max. 8GB
Semiconductor disc (extension)	CompactFlash memory card, SSD SATA
VGA	max. resolution 2560 x 1600, 60 Hz, D-SUB
HDMI	max. resolution 1920 x 1200, 60 Hz
Serial channels	3 x RS232 2x possible extension of galvanic isolated converters RS232/RS485 RS232/RS232)
Ethernet	2x 10/100/1000 MBit/s
USB	3x USB 2.0, 1x USB 3.0
Parallel port	N/A
Keyboard and mouse	USB
WatchDog	Software-programmable time interval (0,5µs - 32s)

Order data:

Standard version of PCU04.10 is supplied with Intel Celeron J1900 and with operating memory 4GB, without SSD and without CF.

On request:

- 2,5" SSD 120GB or higher
- RAM memory 4GB or 8GB
- CompactFlash 2GB or higher
- holder for side wall mounting
- operating system MS Windows 7®, MS Windows XP Embedded®, MS Windows 8 Embedded®

Mounting dimensions:

