



iPCX: Linux-based data logger

Compact, fanless industrial-iPCs with large storage capacity, many interfaces, integrated M-Bus level converter



Function

Powerful data collection from a wide variety of sensors, meters, sensing devices, field busses and data sources of all kinds.

Data transmission

Secure, redundant real-time transmission of data (CSV-files via HTTPS or HTTP) to freely configurable servers - local or web-hosted - via ethernet (proxy-authentication etc.), or wirelessly via UMTS stick, GPRS modem etc.

Standard Features

- High-performance ring memory as local buffer for large amounts of data (min. 3 million values).
- Time resolution / data rate up to 1/s
- Time synchronization by (S)NTP.
- Integrated web server; intuitive, password-protected graphical user interface (HTML5; no plugins or Java).
- Remote updates, remote configuration (with deactivation option).

Optional software modules (in any combination)

- *M-Bus* with integrated level converter (max. 60 standard loads); compatible with any meter, manufacturer or model; scan for automatic detection of all M-Bus devices in bus segments connected.

- *wM-Bus (wireless M-Bus)* compliant with Open Metering Standard (OMS), supports both- S and T-mode; scan for automatic detection of wM-Bus devices.
- *Modbus* master for Modbus/RTU and Modbus/TCP devices; template function for easy creation and configuration of devices.
- *1-Wire Bus* master for all standard 1-Wire sensors (temperature, humidity, analog signals, etc.); scan for automatic detection of devices and sensors.
- *BACnet client* (BACnet-2010, Rev. 12) with extensive scanning and configuration options for BACnet/IP. Automatic detection and reading of all BACnet devices in the network (objects and properties).
- *CANopen master* for CANopen networks with up to 500 metering tracks.
- *Profibus, KNX, EnOcean* - and others via gateways.
- Additional *interfaces* for connecting BMS's, PLC's, weather stations, etc.
- Tailor-made *process diagrams* and *visualisations of measurements* directly on the iPCX.
- Ready for *direct collection and output* of digital and analog signals on-board (software soon available as update).

Technical specification

Storage: 128 MB Flash RAM, optional 2 - 8 GB microSD card
 Power supply: 24 VDC
 Power consumption without peripherals: 94 mA / 110 mA / 1 A (min / typ / max)
 Internal fuse: 1.1 A
 Dimensions: (H×W×L) 62.9×107.6×89.7 mm
 Mounting: DIN rail
 Weight: 190 g

Interfaces:

4 Universal inputs for pulses, status, 0-10 VDC
 2 Analog inputs 4-20 mA
 4 Serial interfaces:
 1 × RS232 over RJ45
 1 × RS485
 1 × CAN-Bus
 1 × M-Bus
 2 × USB-Device / 1 × USB-Host
 1 × RJ45 Ethernet 10/100 Mbit/s
 2 Analog outputs 0-20 mA
 2 Digital outputs (max. 200 mA)
 2 × Power Out 5 VDC overall max. 500mA
 6 × Power Out 24 VDC overall max. 200mA

Operating conditions:

Temperature: 0 - 85 °C
 Humidity: 30 - 60 %
 Protection class: IP-20

Transport conditions:

Temperature: -40 - 85 °C
 Humidity: 20 - 70 %

subject to technical changes
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deZem
 energy controlling

deZem GmbH

Wilmerdorfer Straße 60 · 10627 Berlin
 Phone: +49 (0)30 31 800 730
 Fax: +49 (0)30 31 800 731
 info@dezem.net · www.dezem.net

