

# iPCX: Linux-based data logger

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



Powerful data collection from a wide variety of sensors, meters, sensing devices, field buses 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.

#### **Characteristics**

- 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 via NTP
- integrated web server; intuitive, password-protected graphical user interface (HTML5; no plugins or Java)
- 10 licences for protocols/gateways (in any combination)
- ready for direct collection and output of digital and analog signals on-board
- Remote updates, remote configuration

#### **Extension**

- Aditional interfaces to connect BMS's, PLCs, weather stations, etc.
- customer-specific process diagrams and visualisations of measurements directly on the iPCX

# **Protocols**

- 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 Genereration 3 (OMS3), 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)

Can be connected via additional gateways:

- CANopen Master for CANopen networks with up to 500 metering tracks
- Profibus
- KNX
- EnOcean
- and others



# **Technical data**

Storage: optional 2-16 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

#### Phys. 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. 500 mA
- 6× power out 24 VDC overall max. 200 mA

### Operating conditions:

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

#### Transport conditions:

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

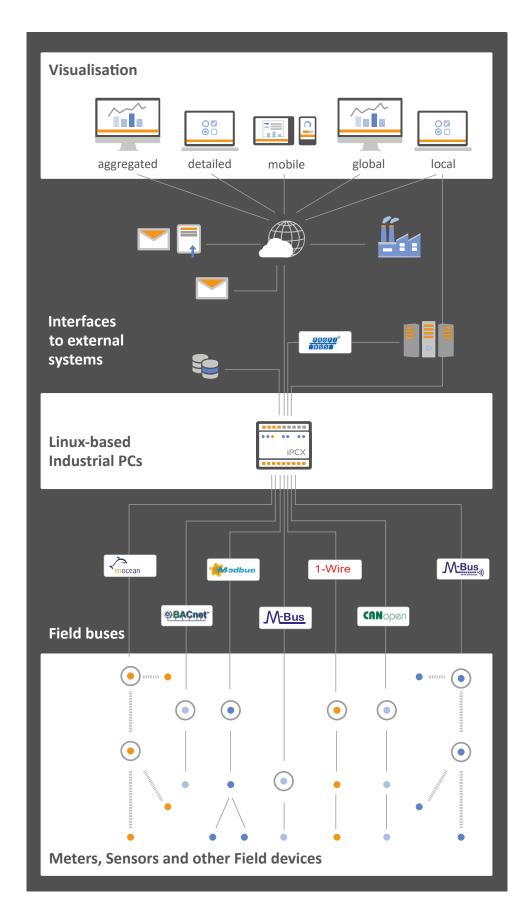
Subject to technical changes Version 1.0, February 2021



#### deZem GmbH

Wilmersdorfer Str. 60 · 10627 Berlin phone: +49 30 31 800 730 fax: +49 30 31 800 731

contact@dezem.de · www.dezem.de



System architecture with the data logger iPCX



# deZem GmbH

Wilmersdorfer Str. 60 · 10627 Berlin phone: +49 30 31 800 730 fax: +49 30 31 800 731 contact@dezem.de · www.dezem.de