



iPCR: Industrial IoT Edge device

Compact, fanless, web-based industrial PC for monitoring, automation and edge computing

Over-the-air firmware upgrade (OTA)

Functions:

Compact automation device with the following characteristics:

- Suitable for a wide range of monitoring and automation projects
- Complex algorithms can be provided by deZem after precise coordination
- Attractive visualisation dashboards directly on the iPCR via HDMI or
- Multiple industrial input/output protocols can be used in parallel
- The (further) development of the application can be carried out during the current project to enable special agility (develop/test/improve)
- Includes pre-configured Node-Red, Grafana and Influx-DB, allowing direct focus on the application.

Data Transfer

Secure and redundant real-time transmission of measured values via:

- https
- MQTT
- E-Mail

to freely configurable destination addresses such as:

- Ethernet
- Modbus TCP

- OPC UA
- EtherNet/IP and Bluetooth-Low-Energy (BLE).

IoT interfaces are also available, such as:

- MQTT
- SOAP
- REST-API
- 1-wire
- SNMP

Basic Software

- deZemOS with automation and extremely versatile dashboards for monitoring and controlling the automation process
- Over-The-Air updates (OTA)

Application examples

Load Management

Precise activation and deactivation of loads to avoid unwanted peaks

State-of-the-art greenhouse control

- fully automated regulation
- consideration of local and intra- or internet-based data



Technical Data

WLAN: Dual-band 802.11ac/a/b/g/n
2.4 & 5GHz WiFi
Ethernet: 1 x 10/100 RJ45
Bluetooth LE
USB: 2 x 2.0 Typ A
HDMI: 1 x HDMI Typ A with CEC
RTC: via I2C Chip, with Button cell battery
Supply: 6 to 24 V cd
DIN-rail mounting

Permitted operating conditions:

Temperature: 0 - 70 °C
Air humidity: 30 - 60 %
Degree of protection: IP-20

Permitted transport conditions:

Temperature: -40 - 85 °C
Air humidity: 20 - 70 %

Subject to technical modifications.
Current status: March 2020

deZem
sense | check | act

deZem GmbH

Wilmersdorfer Straße 60
10627 Berlin
Phone: +49 (0)30 31 800 730
Fax: +49 (0)30 31 800 731
contact@dezem.de -www.dezem.de