

# PXI-CORE Edge controller



- ▶ Compact yet powerful integration platform
- ▶ App-based on Linux Ubuntu Core
- ▶ Multicore CPU performance
- ▶ High level cyber security in place

The PXI-CORE Edge controller is the HW base unit for smart integration. It consists of a compact DIN-rail mountable hardware unit, Linux operating system and firmware. Smart integration stands for integration between Bosch Building Technology systems and devices. Next to this HW base unit the dedicated Intelligent control SW App for the PXI-CORE Edge controller is required which is sold separately. Information of the Intelligent control App will reveal the features and supported systems and devices.

This smart integration solution connects to IP based systems and devices utilizing the available IP interface. The Intelligent control App is running on the PXI-CORE Edge controller. Installation, updates and configuration of this App can be done remotely from any location via the web-GUI. The PXI-CORE Edge controller is equipped with a Trusted Platform Module (TPM) 2.0, has a full secure boot support, secured HTTPS web interface connection and supporting CA signed certificates for authentication. All to ensure a high level of cyber security.

## Functions

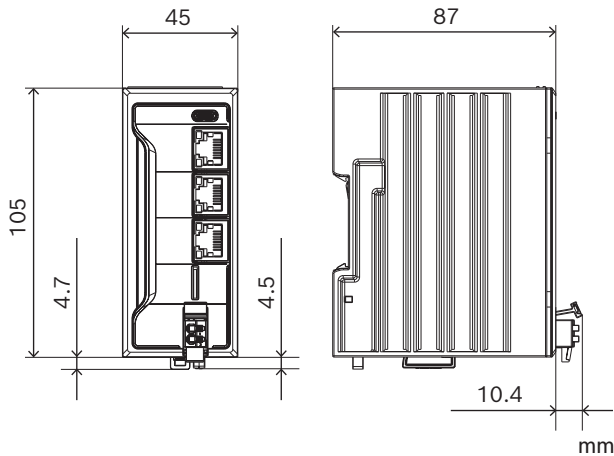
- Remote installation and update of Apps.
- Web-based user interface for configuration.
- LDAP support.
- NTP server support.
- Designed for 24/7 operation.

## Regulatory information

| Regulatory standards |  |
|----------------------|--|
| EMC                  | EN55032<br>EN55035<br>FCC Part 15B<br>ICES-003 |
| Environment          | EN IEC 63000                                   |

| Region        | Regulatory compliance/quality marks |
|---------------|-------------------------------------|
| Korea         | KCC                                 |
| Australia     | RCM                                 |
| Great Britain | UKCA                                |
| Europe        | CE                                  |
| China         | RoHS                                |
| USA           | FCC                                 |
| Canada        | IC                                  |

**Installation/configuration notes**



Dimensions in mm

**Parts included**

| Quantity | Component  |
|----------|--|
| 1        | PXI-CORE edge controller                                     |
| 1        | 24 V power connector, RTB, 2-pin (power supply not included) |

**Technical specifications**

**Electrical**

|   |  |
|---|--|
| Nominal voltage                                       | 24 VDC SELV/PELV                                     |
| Maximum voltage range of the supply voltage allowed   | 18 VDC to 31.2 VDC (incl. all tolerances and ripple) |
| Max. current consumption at a nominal voltage of 24 V | 320 mA   |
| Max. power consumption at a nominal voltage of 24 V   | 7.68 W   |
| Fuse protection                                       | eFuse, 2.0 A   |
| Secure model  | TPM 2.0  |
| Processor   | Zync Ultrascale+, 64 bit, 4 × ARM A53                |
| RAM   | 2 GB DRAM  |

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|                               |   |
|-------------------------------|---|
| Communication interfaces RJ45 | 2 × Ethernet connection (10 MB, 100 MB, 1 GB)               |
| USB                           | 1 × USB host, TYPE C (USB2.0), maximum cable length of 3 m. |
| SD card                       | Slot for microSD card<br>Max. 32GB. FAT32                   |
| Battery                       | CR1025  |

**Environmental**

| Climatic conditions                      |                                      |
|--|--------------------------------------|
| Operating temperature (derating applies) | -25 °C - +55 °C (-13 °F - 131 °F)    |
| Altitude (operating)                     | -500 to + 5000 m (-1640 to 16404 ft) |
| Storage and transport temperature        | -40 °C to +70 °C (-40 °F - 158 °F)   |
| Humidity (non condensing)                | 5 – 95%                              |

**Mechanical**

| Enclosure              |   |
|------------------------|---|
| Dimensions (H x W x D) | 105 x 45 x 87 mm (4.13 x 1.77 x 3.43 in)<br>19 in, 1U |
| Ingress protection     | IP20  |
| Weight                 | 314 g   |

**Ordering information**

**PXI-CORE Edge controller**

Compact smart integration base unit, DIN-rail, 24 VDC powered.

Order number **PXI-CORE | F.01U.395.004**