BOSCH

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.
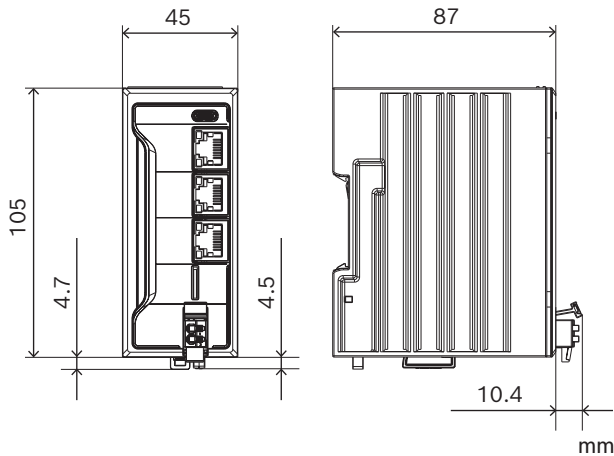
Functions

- 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 EN55035 FCC Part 15B 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

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 Max. 32GB. FAT32
Battery	CR1025

Environmental

Climatic conditions

Operating temperature (derating applies)	-25 ℃ - +55 ℃ (-13 ℉ - 131 ℉)
Altitude (operating)	-500 to + 5000 m (-1640 to 16404 ft)
Storage and transport temperature	-40 ℃ to +70 ℃ (-40 ℉ - 158 ℉)
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) 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**