

▶ 03-DIN

03-DIN-CPU

Description

The 03-DIN-CPU is a fully programmable native BACnet® Building Controller. As the primary integration engine of the 03 system, the 03-DIN-CPU contains memory storage and external communication ports as well as the control logic for the expansion modules. The 03-DIN-CPU can support up to 4 expansion modules.

The 03-DIN-CPU supports multiple communication methods, including BACnet/IP, BACnet over Ethernet, BACnet MS/TP and Delta LINKnet.



Application

The 03 system is a complete solution that combines HVAC, access control and lighting control in a modular system. It combines multiple protocols and I/O points in one unit.

The 03 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

Features

- ▶ Fully programmable
- ▶ BACnet/IP, BACnet over Ethernet and BACnet MS/TP communication ports
- ▶ Dual Ethernet ports
- ▶ Modular, expandable I/O. Modular design provides flexibility, ease of service and reduces cost of future upgrades.
- ▶ Advanced fault detection and diagnostics
- ▶ Firmware upgrade and database load/save over the network
- ▶ LED indicators for device status, NET and Ethernet ports
- ▶ USB expansion ports
- ▶ DIN rail mountable (EN 50022-35x7.5)

Specifications

BACnet Device Profile

BACnet Building Controller (B-BC)

Device Addressing

Software addressed

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

Power

24 VDC, 100W max

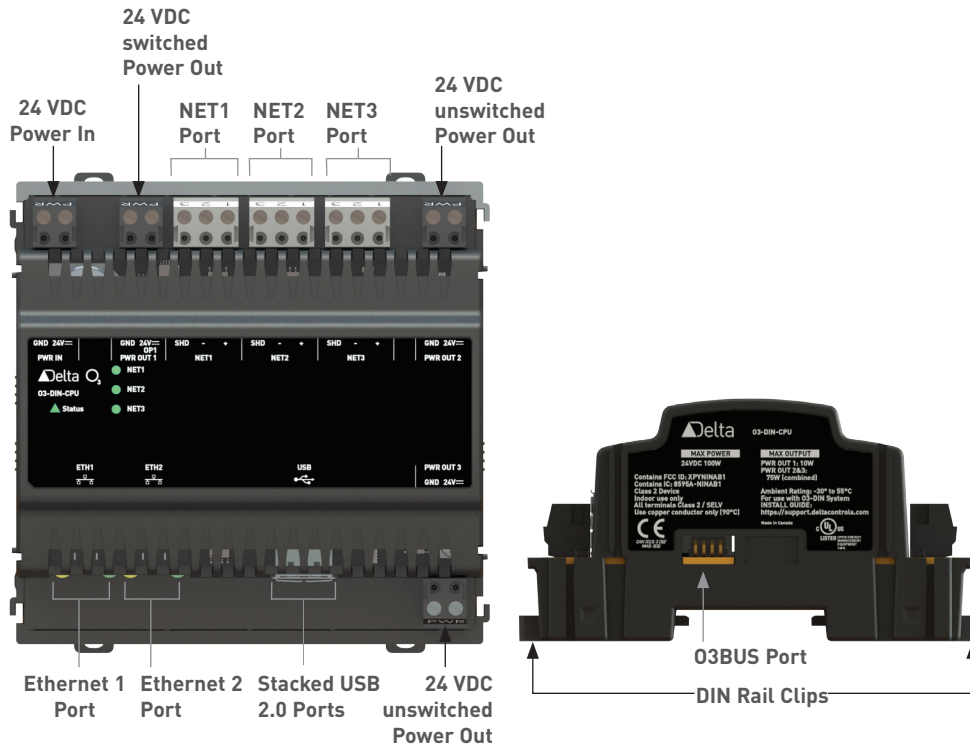
Power Out

1 24 VDC switched Power Out port
Short circuit protected
Overcurrent protected

2 24 VDC unswitched Power Out ports

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Specifications (Continued)

Technology

ARM Cortex-A8
 32-bit 600 MHz RISC CPU
 4 GB eMMC Flash memory
 256 MB DDR3L RAM
 Real-time clock
 Ultracap power backup for RTC and CPU

Communication Ports

2 Ethernet (10/100-Base T)
 BACnet/IP, BACnet over Ethernet

3 RS-485 Ports supporting:
 BACnet MS/TP up to 76800 bps, max
 16 devices per 03-DIN-CPU on MS/TP

Delta LINKnet up to 76800 bps, max
 8 eZNS devices per 03-DIN-CPU on
 LINKnet

2 USB 2.0 Host ports

O3BUS port

Bluetooth Low Energy (Version 4.2)

Ambient

-30° to 55°C (-22° to 131°F)
 10 to 95% RH (non-condensing)

Dimensions

108 x 111 x 58 mm
 (4.25 x 4.37 x 2.28 in.)

Weight

193 g (0.425 lb)

Enclosure Protection Rating

IP20

Compliance

CE
 FCC

Listings

UL 916 Listed

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Subject to change without notice.

Order the 03-DIN system base unit with one or more modules:

Base Unit

03-DIN-CPU	CPU base unit: 3 network ports, dual Ethernet ports, 3 Power Out, Bluetooth, Modbus RTU support, NFC
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Module Options

03-DIN-8xP	I/O module: 8 Universal I/O, input (0-10V, 0-5V, 10K) or output (20mA source, 10mA sink)
03-DIN-DALI	DALI lighting module: DALI interface, 100mA power output

Power Supply

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24V 30 Watt Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24V 60 Watt Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24V 100 Watt Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24V 30 Watt Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24V 50 Watt Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24V 100 Watt Class B EMC