

enteliBUS

Automation Engine: Controller (eBCON)

Description

The enteliBUS™ Controller (eBCON) is a fully programmable native BACnet® Building Controller. The Controller supports multiple communications methods including, as standard, BACnet/IP, BACnet® over Ethernet, BACnet MS/TP and Delta LINKnet™.

The Controller integrates the functions of the enteliBUS Manager and the enteliBUS Expander into a single compact module. This single module contains the primary CPU, memory storage, external communication ports, and direct I/O control for up to 4 enteliBUS I/O Modules.

The Controller comes bundled with a controller Backplane that holds up to 4 I/O Modules. A connector on the Backplane allows for further I/O expansion. Up to 8 Backplanes (and associated I/O Modules) can be controlled from a single enteliBUS Controller module.



Application

The enteliBUS Control System is made up of multiple modular components that you select to meet the exact needs of a wide range of HVAC and Access control applications.

The enteliBUS Controller, with associated I/O Modules, provides a small footprint controller perfect for applications with limited mounting space. It can be used as a low density distributed controller, or expanded with additional Backplanes/modules for high density I/O applications.

Features

- ▶ Native BACnet firmware
- ▶ Fully programmable in GCL+
- ▶ BACnet Ethernet, BACnet/IP, and BACnet MS/TP comm. ports
- ▶ Modular, expandable I/O
- ▶ Advanced fault detection & diagnostics
- ▶ SD card memory expansion
- ▶ Firmware upgrade & database load/save over the network
- ▶ LED status indications of power/scan and communication ports
- ▶ Small footprint, DIN rail mountable
- ▶ Modular design provides flexibility, ease of service, and reduced cost for future upgrades

Specifications

BACnet Device Profile

BACnet Building Controller (B-BC)

Technology

ARM9 32-bit RISC CPU
64 MB Flash memory
32 MB SDRAM memory
SD/SDIO card slot for memory expansion
Real-time clock (temperature compensated)
Ultracap power backup for RTC & memory
LED indication of CPU and scan status

Communication Ports

Twisted Pair Ethernet (10/100).
BACnet/IP & BACnet over Ethernet protocols supported.

RS-485 Port (up to 76800 bps). BACnet MS/TP and Delta LINKnet protocols supported.

USB Host Port

Device Type/Addressing

BACnet address set via software

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

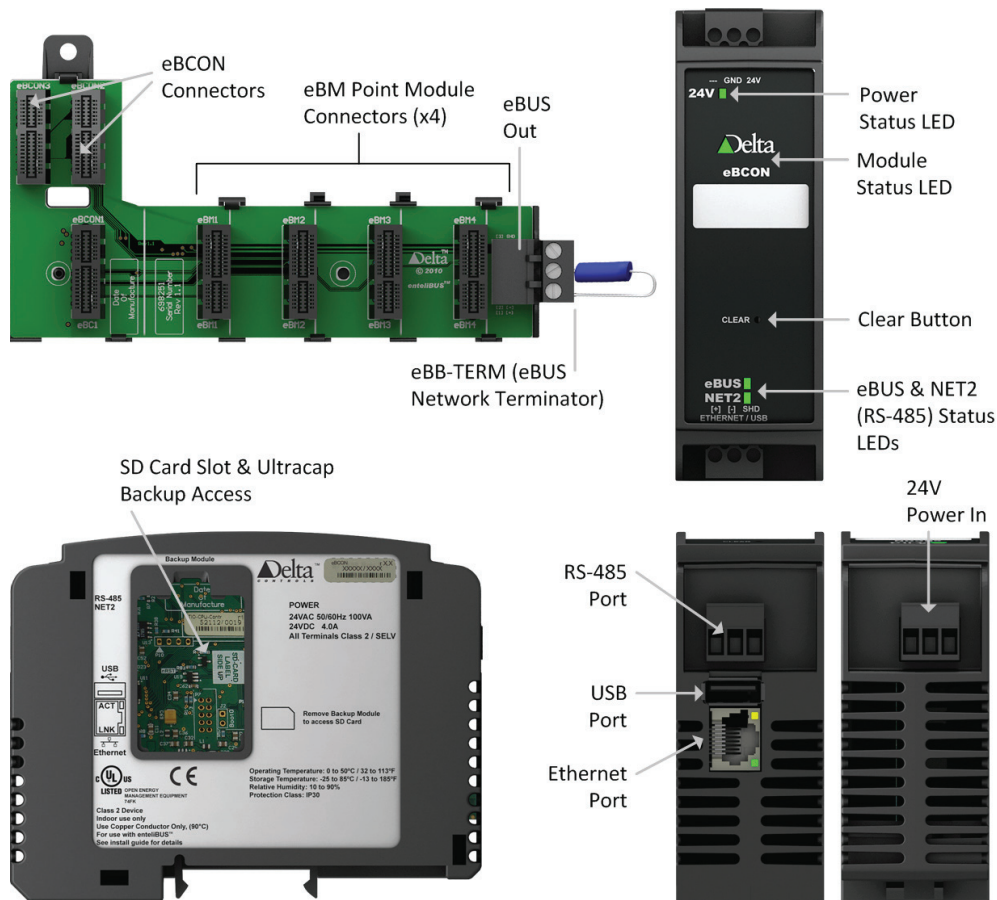
Power

24VAC/DC
6VA, 100VA max with fully loaded I/O Modules*

*eBCON supplies power for up to 4 I/O Modules via the Controller Backplane.

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eBCON: Board Layout Diagram



Specifications (Continued)

Ambient

0° to 55°C (32° to 131°F)
10 - 95% RH (non-condensing)

Dimensions

eBCON*
12.6 x 14.5 x 10.0 cm (5.0 x 5.7 x 4.0")

*Dimensions given are for eBCON package with associated controller Backplane.

Mounting

Backplane: Snap mounts to standard 35mm DIN rail
eBCON: Snap mounts to Backplane & DIN rail assembly

Enclosure Protection Rating

IP30

Compliance

CE
FCC

Listings

UL 916
BTL

Ordering

eBCON	enteliBUS Controller w/ 4 slot Controller Backplane
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Accessories

[See enteliBUS Parts List for a complete list of all available enteliBUS modules and accessories]

eBM-xxx	enteliBUS I/O Modules, see enteliBUS Parts List for a list of available modules
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Subject to change without notice.