

Automation Engine: Controller (eBCON)

Description

Application

applications.

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.



The enteliBUS Control System is made

you select to meet the exact needs of a

wide range of HVAC and Access control

The enteliBUS Controller, with associated

limited mounting space. It can be used as

modules for high density I/O applications.

I/O Modules, provides a small footprint

controller perfect for applications with

a low density distributed controller, or

expanded with additional Backplanes/

up of multiple modular components that

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
64MB Flash memory
32MB SDRAM memory
SD/SDIO card slot for memory expansion
Real-time clock (temperature
compensated)
Ultracap power backup for RTC and
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

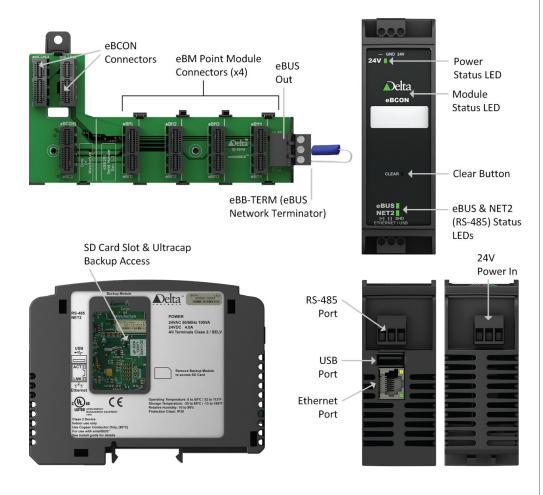
24 VAC/DC 6 VA, 100 VA max with fully loaded I/O Modules*

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



enteliBUS

eBCON: Board Layout



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 in.) 372 g (0.820 lb)

*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

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.



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