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.

eBCON

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

— 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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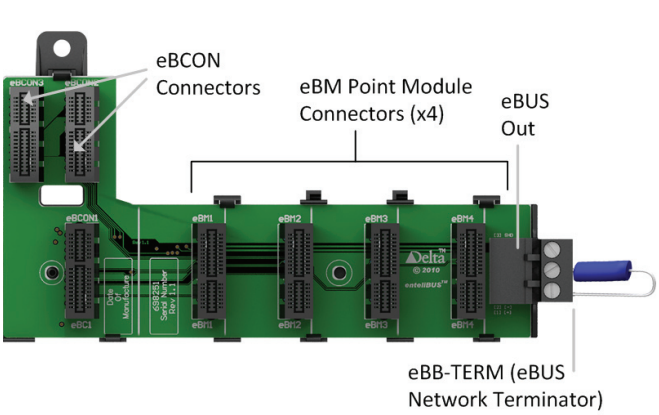
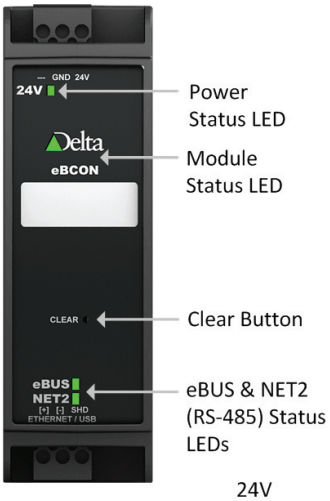
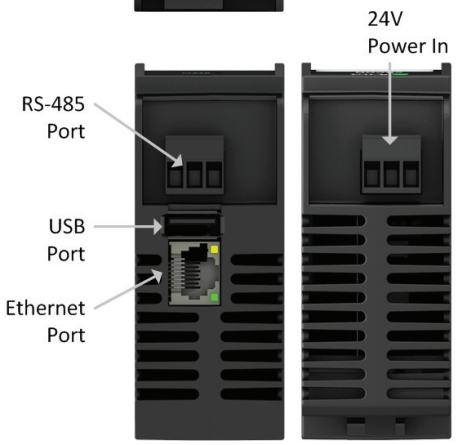
eBCON: Board Layout Diagram







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

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

Subject to change without notice.

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