

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 eBCON comes bundled with a backplane that holds up to 4 I/O modules. A connector on the backplane allows you to connect up to 8 backplanes (and associated I/O modules), all of which can be controlled from a single eBCON.



Application

Used together with enteliBUS I/O modules, the eBCON is a small footprint controller perfect for applications with limited mounting space. It can be expanded with additional backplanes/modules for high density I/O applications.

The eBCON can also be used as an intelligent controller for a Delta access control system. The eBCON contains enough memory to hold 50,000 card user database, and can manage up to 24 single- direction doors when used with 12 ADM-2W704 controllers.

Features

- ► Native BACnet firmware
- ► Fully programmable in GCL+
- ► BACnet/Ethernet, BACnet/IP, and BACnet MS/TP communication 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)

Mounting

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

Device Type/AddressingSoftware addressed

Connectors

Removable screw-type terminal connectors

Wiring Class Class 2 / SELV

Power

24 VAC 50/60 Hz @ 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 is a registered trademark of Delta Controls

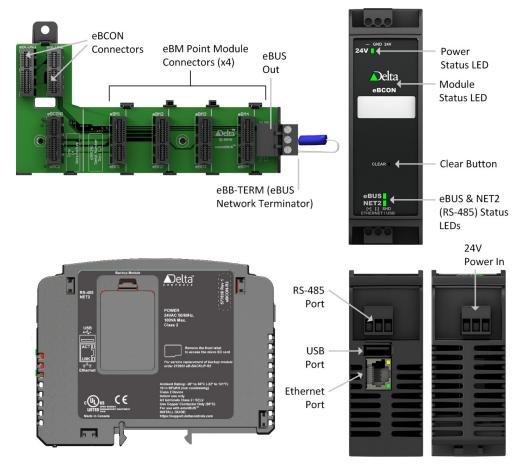
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Updated January 2020_r



enteliBUS®

eBCON: Layout



Ordering

Order the eBCON according the following product number:

eBCON	enteliBUS Controller w/ 4-slot Controller backplane
eBC0N-UL864-340	enteliBUS Controller w/ 4-slot Controller backplane, UL 864 Listed

Accessories

See online ordering for a complete list of all enteliBUS modules and accessories.

eBX-04	enteliBUS expander—I/O expander with 4-slot expander backplane‡
eBX-08	enteliBUS expander—I/O expander with 8-slot expander backplane‡
eBM-D400R4	enteliBUS I/O module with 4 digital inputs and 4 relay outputs
eBM-D800	enteliBUS I/O module with 8 digital inputs‡
eBM-404	enteliBUS I/O Module with 4 universal inputs and 4 24 VAC TRIAC outputs‡
eBM-440	enteliBUS I/O module with 4 universal inputs and 4 0-10 VDC outputs‡
eBM-440-M	enteliBUS I/O module with 4 universal inputs, 4 0-10 VDC outputs with 3 position (HAO) override switches and 0 to 100% override adjust levers [‡]
eBM-800	enteliBUS I/O module with 8 universal inputs‡

 $^{^\}ddagger$ UL 864 versions available

Specifications (Continued)

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 and

Ultracap power backup for RTC and memory

Communication Ports

Ethernet (10/100-BaseT) BACnet/IP, BACnet over Ethernet

RS-485 Port supporting:

BACnet MS/TP up to 76800 bps, max 99 devices per port

Delta LINKnet up to 76800 bps, max 12 devices on LINKnet with no more than 2 DFM devices

USB Host Port

Ambient

-30° to 55°C (-22° to 131°F) 0° to 55°C (32° to 131°F) for UL 864 product numbers 10 to 95% RH (non-condensing)

Dimensions

12.6 x 14.5 x 10.0 cm (5.0 x 5.7 x 4.0 in.)**

**Dimensions given are for eBCON package with Controller backplane

Weight

372 g (0.820 lb)

Enclosure Protection Rating IP30

Compliance

CE FCC

EAC

Listings

UL 916 Listed

UL 864 Listed for UL 864 product numbers

BTL Listed





Subject to change without notice.

