



## 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/Addressing

Software 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

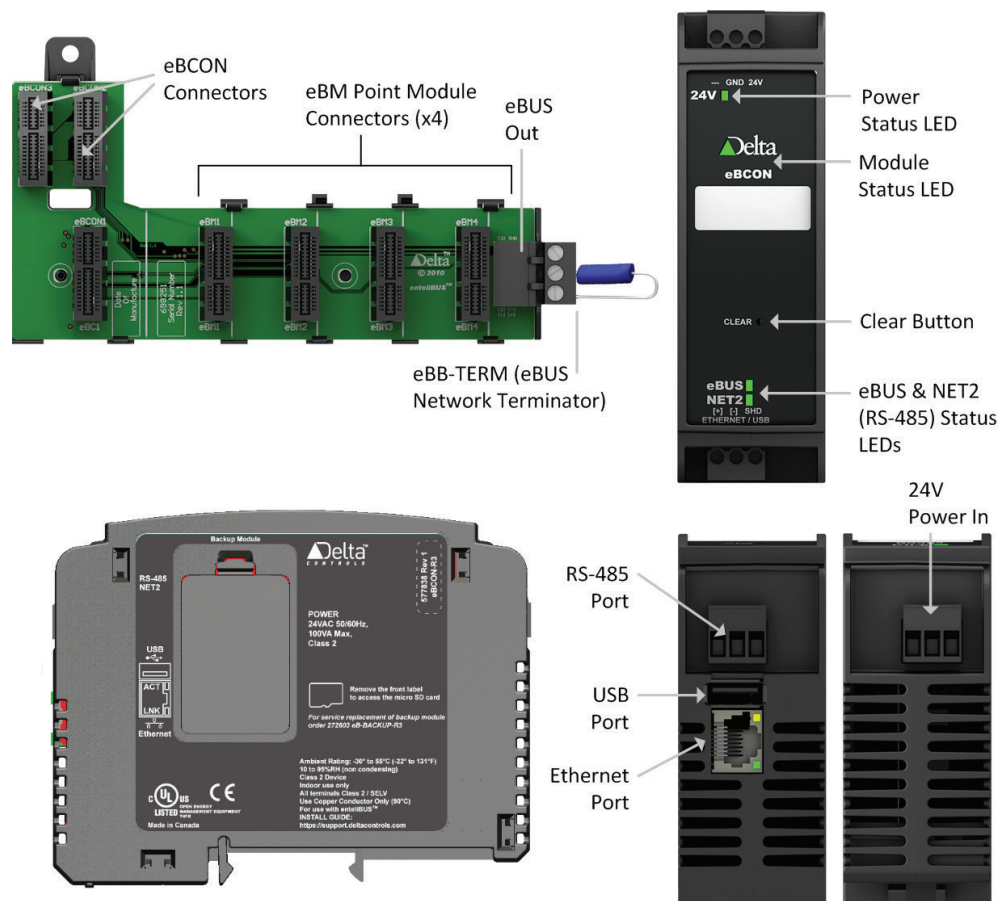
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BACnet is a registered trademark of the American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

Updated October 2016



# enteliBUS®

## eBCON: Layout



## Ordering

Order the eBCON according the following product number:

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

## Accessories

See enteliBUS parts list for a complete list of all available enteliBUS modules and accessories.

eBM-D400	enteliBUS I/O module with 4 digital inputs and 4 relay outputs
eBM-D800	enteliBUS I/O module with 8 digital inputs†
eBX-04	enteliBUS expander—I/O expander with 4-slot expander backplane†
eBX-08	enteliBUS expander—I/O expander with 8-slot expander backplane†
eBMGR	enteliBUS manager—CPU/Comm. module†
eBMGR-TCH	enteliBUS manager—CPU/Comm. module with touchscreen LCD
eBM-440	enteliBUS I/O module with 4 universal inputs and 4 0-10 VDC outputs†

† 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 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

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

### Dimensions

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

\*\*Dimensions given are for eBCON  
package with Controller backplane

### Weight

0.820 lb (372 g)

### Enclosure Protection Rating

IP30

### Compliance

CE  
FCC

### Listings

UL 916 Listed  
UL 864 Listed for UL 864 product  
numbers  
BTL Listed

Subject to change without notice.