



Automation Engine: Manager(eBMGR)

Description

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

The Manager is the automation engine of the enteliBUS Control System. It contains the primary CPU, memory storage, and external communication ports. The Manager also provides the control logic for enteliBUS I/O expansion backplanes.

An optional integrated LCD touchscreen provides local interface capabilities.



Features

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

Application

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

The eBMGR has multiple applications. By itself, it is a powerful system manager/BACnet router. With expansion backplane(s) attached, the eBMGR functions as an expandable I/O controller.

Use the enteliBUS Control System in low to medium density I/O applications to control a single piece of equipment, such as an AHU or chiller. Use it in high density I/O applications to control an entire mechanical room or central plant.

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
3 Port 10/100 Ethernet Switch
BACnet/IP and BACnet over Ethernet protocols supported

2 RS-485 Ports (up to 76800 bps)
BACnet MS/TP, Delta LINKnet, and Modbus® protocols supported

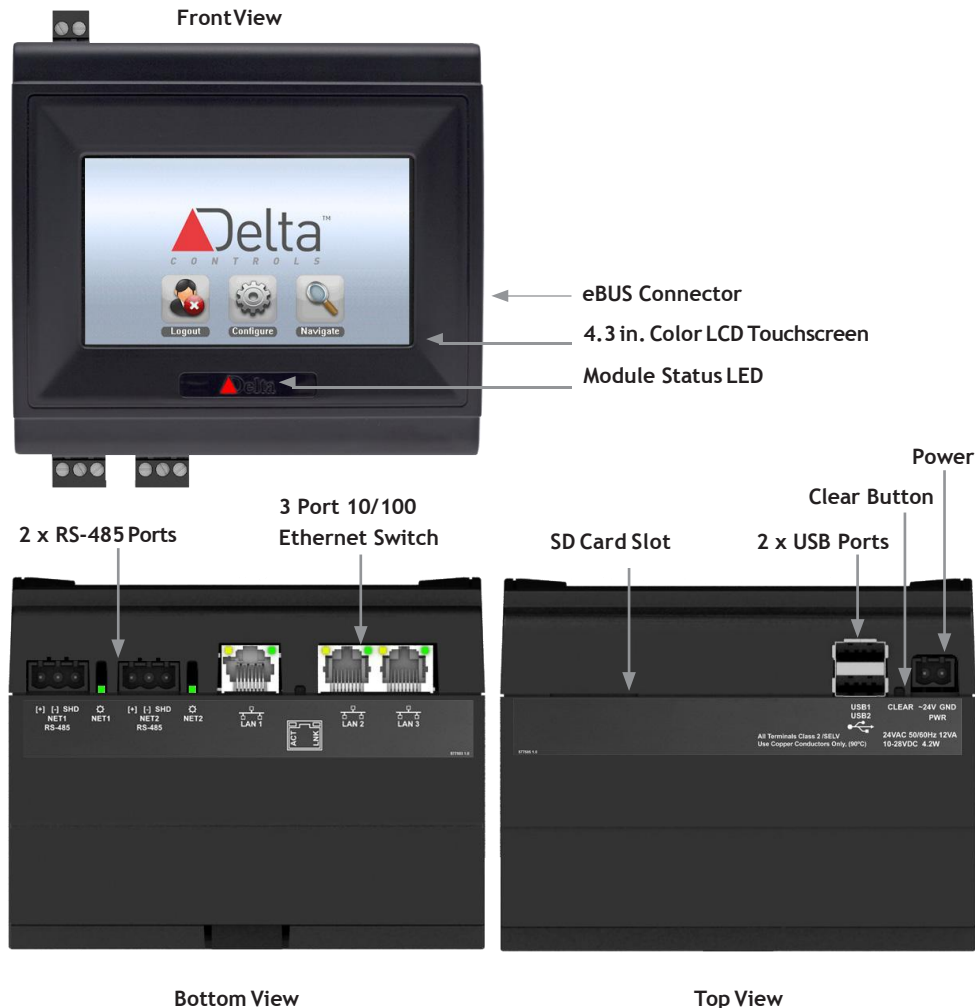
2 USB host ports

LCD Touchscreen (Optional)
4.3" Active Matrix Touchscreen

16-bit color, 480 x 272 resolution

Device Type/Addressing
BACnet address set via software

eBMGR: Board Layout Diagram



Specifications (Continued)

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

Power

**24 VAC 50/60Hz, 12 VA
10-28VDC, 4.2W**

Ambient

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

Dimensions

14.5 x 14.0 x 10.0 cm (5^{3/4} x 5^{1/2} x 4 in.)

Mounting

Snap mounts to standard 35mm DIN rail

Enclosure Protection Rating

IP30

Compliance

**CE
FCC**

Listings

**UL916
BTL**

Ordering

Order the eBMGR according to the following product numbers:

eBMGR	enteliBUS Manager—CPU/ Comm. module
eBMGR-TCH	enteliBUS Manager—CPU/Comm. module with touchscreen LCD

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-xxx	enteliBUS I/O modes. See enteliBIS parts list for a list of available modules

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Updated September 3, 2013

Subject to change without notice.