enteliBUS[™]

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.



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.

Features

- Native BACnet firmware
- Fully programmable
- BACnet Ethernet, BACnet/IP and BACnet MS/TP comm. ports
- Integrated LCD touchscreen interface (optional)
- 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 Ethernet 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

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

16bit Color, 480x272 resolution

Device Type/Addressing BACnet address set via software

Connectors Removable screw-type terminal connectors

Wiring Class Class 2 / SELV

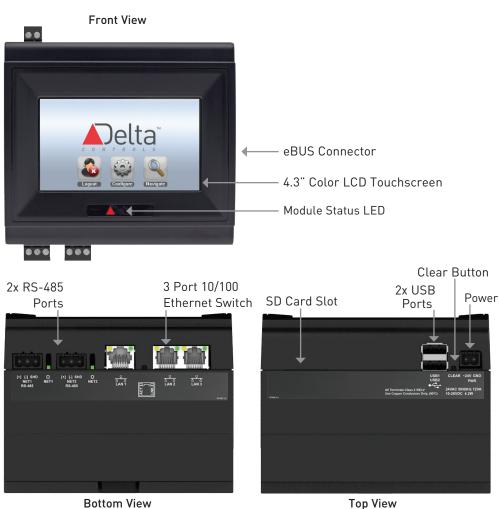
Power 24VAC 50/60Hz, 12VA

10-28VDC, 4.2W



enteli**BUS**[™]

eBMGR: Board Layout Diagram



Bottom View

Ordering

Order the eBMGR according to the following product numbers:		
eBMGR	enteliBUS Manager - CPU/Comm. module	

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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 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 14.5 x 14 x 10cm (5 3/4 x 5 1/2 x 4")

Mounting Snap mounts to standard 35mm DIN rail

Enclosure Protection Rating IP30

Compliance CE

FCC

BTL

Listings UL 916

Subject to change without notice.

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