



Automation Engine: Manager (eBMGR-2)

Description

The enteliBUS manager (eBMGR-2) 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 for viewing, modifying and configuring local I/O, variables, alarms, alarm logs, and schedules.



Application

The eBMGR-2 has multiple applications. By itself, it is a powerful system manager and BACnet router. With expansion backplane(s) attached, the eBMGR-2 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 communication ports
- ▶ Integrated LCD touchscreen interface (optional)
- ▶ Modular, expandable I/O
- ▶ Advanced fault detection and diagnostics
- ▶ Firmware upgrade and database load/save over the network
- ▶ LED status indications of power, CPU 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)
BACnet Gateway (B-GW)

LCD Touchscreen (Optional)

4.3 in. active-matrix LCD touchscreen
16-bit color, 480×272 resolution

Mounting

Snap mounts to standard 35 mm DIN rail

Device Addressing

Software addressed

Connectors

Removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

Power

24 VAC 50/60Hz @ 12 VA
10–28 VDC, 4.2 W

Technology

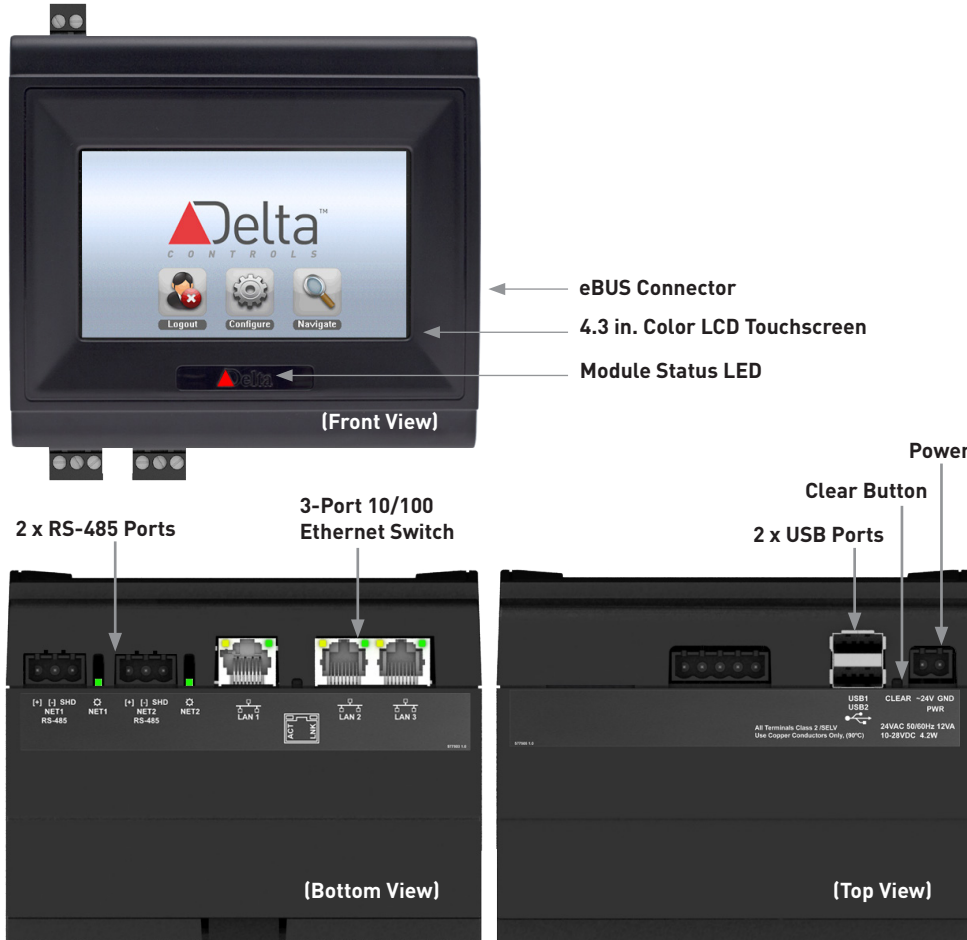
Arm® Cortex®-A8 CPU
256 MB SDRAM memory
4 GB flash memory
Real-time clock (temperature compensated)
Supercapacitor power backup for RTC and memory

Communication Ports

3-port 10/100 Ethernet switch
BACnet/IP, 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

enteliBUS®

eBMGR-2: Layout



Specifications (Continued)

Ambient Rating for eBMGR-2
 -30°C to 55°C (-22°F to 131°F)
 10% to 95% RH (non-condensing)

Ambient Rating for eBMGR-TCH-2
 0°C to 55°C (32°F to 131°F)
 10% to 95% RH (non-condensing)

Dimensions
 145 × 140 × 100 mm (5¾ × 5½ × 4 in.)

Weight
 eBMGR-2: 214 g (0.472 lb)
 eBMGR-TCH-2: 395 g (0.871 lb)

Enclosure Protection Rating
 IP30

Compliance
 CE
 FCC
 EAC

Listings
 C-UL Listed
 UL 916 Listed
 BTL Listed



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Ordering

Order the eBMGR-2 or eBMGR-TCH-2 according to the following product numbers:

| | |
|-------------|---------------------------------------------------------|
| eBMGR-2 | enteliBUS manager—CPU/Comm. module |
| eBMGR-TCH-2 | enteliBUS manager—CPU/Comm. module with touchscreen LCD |

Accessories

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

| | |
|---------|----------------------------------------------------------------|
| eBM-xxx | enteliBUS I/O modules |
| eBX-04 | enteliBUS expander—I/O expander with 4-slot expander backplane |
| eBX-08 | enteliBUS expander—I/O expander with 8-slot expander backplane |

Subject to change without notice.