

# 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 for viewing, modifying and configuring local I/O, variables, alarms, alarm logs and schedules.



#### **Application**

The eBMGR has multiple applications. By itself, it is a powerful system manager and 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.

The eBMGR can also be used as an intelligent controller for a Delta access control system. The eBMGR 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
- ► BACnet Ethernet, BACnet/IP and BACnet MS/TP communication ports
- ► Integrated LCD touch-screen 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)

LCD Touch-screen (Optional) 4.3 in. Active Matrix touch-screen 16-bit color, 480 x 272 resolution

Snap mounts to standard 35 mm DIN

**Device Addressing** Software addressed

#### Connectors

Removable screw-type terminal connectors

Wiring Class Class 2 / SELV

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# enteliBUS®

# eBMGR: Board Layout Diagram



Bottom View Top View

#### Ordering

Order the eBMGR according to the following product numbers:

eBMGR	enteliBUS Manager—CPU/ Comm. module
eBMGR-TCH	enteliBUS Manager—CPU/Comm. module with touch-screen LCD
eBMGR-UL864-340	enteliBUS Manager—CPU/ Comm. module, UL 864 Listed

#### Accessories

See the enteliBUS parts list for a complete list of all available 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-xxx	enteliBUS I/O modules*
eBCON	enteliBUS controller—compact CPU / Comm. module with 4-slot controller backplane*

<sup>\*</sup> UL 864 versions available

#### Specifications (Continued)

#### Power

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

#### **Technology**

ARM9 32-bit RISC CPU
64 MB flash memory
32 MB SDRAM memory
SD/SDIO card slot
Real-time clock (temperature
compensated)
Ultracap power backup for RTC and
memory

#### **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

#### Ambient

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

#### Dimensions

5¾ x 5½ x 4 in. [14.5 x 14.0 x 10.0 cm]

#### Weight

eBMGR 0.472 lb (214 g) eBMGR-TCH 0.871 lb (395 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.



