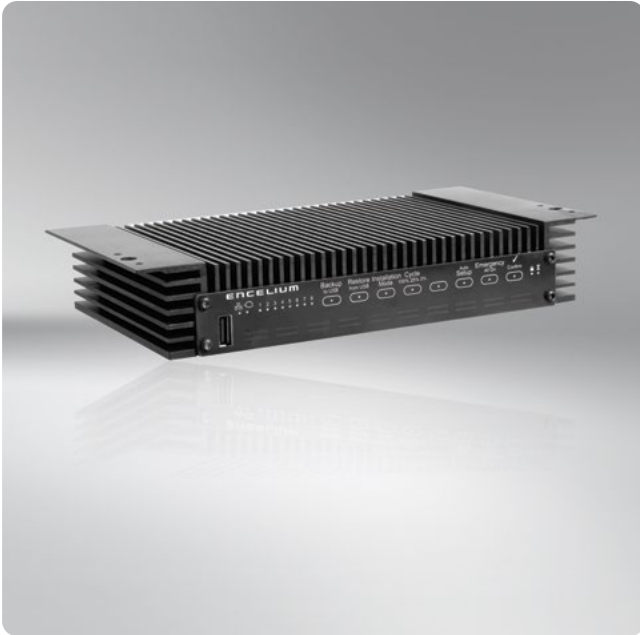


Wired Manager

Encelium X Wired Manager



The Encelium X Wired Manager is a central intelligence point in the system that collects, processes, and distributes lighting control information to distributed load controllers, sensors, wallstations, and other devices over the GreenBus network. It then determines appropriate brightness levels or ON/OFF status for each luminaire and zone.

Wired Managers are typically located in the electrical room or communication closet on each floor of a building and are connected to a network switch using standard Ethernet connections.

The GreenBus wiring protocol is a two-wire communication topology for supplying data and power to the system. Each luminaire, sensor, and wall controller is daisy-chained back to the Wired Manager using pre-terminated 'click & go' GreenBus communication cabling.

Date: _____

Quantity: _____

Company: _____

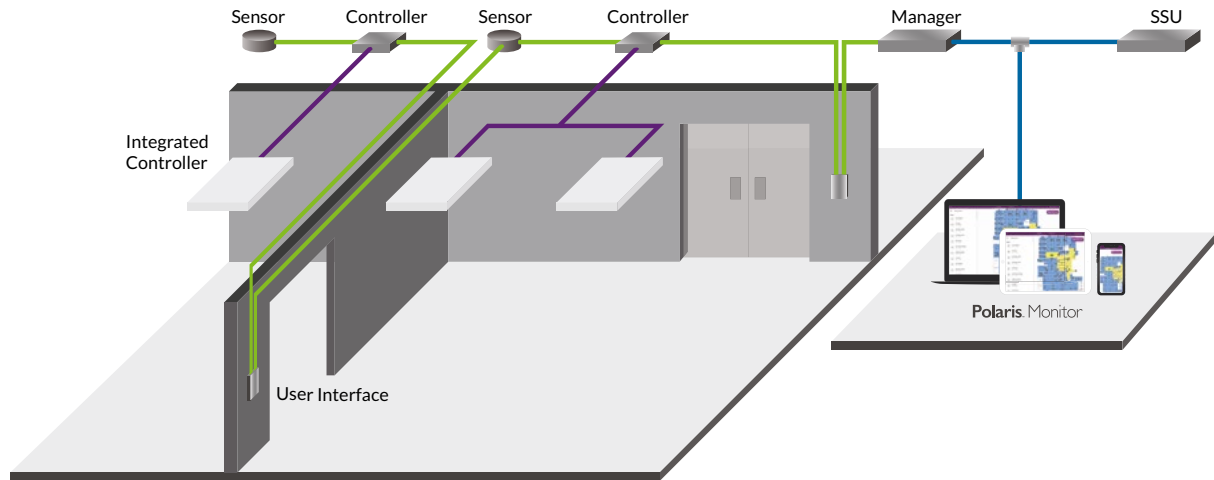
Project: _____

Key Features & Benefits

- Scaling up for applications of any size
- Can be combined with the Wireless Manager for a hybrid wired and wireless solution
- Sleek design provides non-obtrusive placement on walls or racks
- Communicates over IP, allowing the wired manager and connected lighting controls devices to be accessed and configured across a local area network
- Each wired manager supports up to 800 devices. Additional wired managers can connect and scale a system of lighting controls to a maximum of 30,000 devices

Wired System Overview

GreenBus technology makes wiring fast and error-free, since it's intuitive to install. With Encelium X, you can control DALI devices exclusively or a mixture of GreenBus and DALI. With any Encelium wired design, you get a reliable, on-site light management system that can be installed quickly and easily.



Specifications

SENSING AND CONTROL

GreenBus

- 8-Channel Ports, 2.5 VDC, Class II
- Controls 100 nodes per channel – up to a total of 800 nodes per wired manager

USB¹ LAN Access

- 2.0 Port to restore or back up database from USB drive
- 1TU2.ET100 required for G4 (sold separately)

Ethernet Network Port

- Ethernet 1-/100BaseTx Cat-5 RJ45 port

Configuration

- Stored in non-volatile flash memory

Communication Status

- LED, 8-channel²

Software

- Polaris™

ELECTRICAL

External Power Supply³

- 100 – 240 VAC, 50/60 Hz, 1.8A

Circuit

- Normal non-emergency circuit only⁴

ENVIRONMENTAL

Operating Temperature

- 32° – 104°F (0° – 40°C)

PHYSICAL

Dimensions (H x W x L)

- 1.5 x 4.75 X 9 inch (38.1 x 120.65 X 228.6 mm)

Weight

- 2.2 lbs (1.02 kg)

Mounting Method

- Standard 19 inch (482.6 mm) rack (1U width)
- Individual wall-mount
- Optional 4U wall-mounted rack

WARRANTY

- For warranty details, refer to the full warranty documentation at www.encelium.com

CERTIFICATIONS & SAFETY

Approbations

- UL/cUL Listed, Energy Management Equipment (UL 916)
- FCC Part 15/ICES-003, Class A

Complies with Electromagnetic Compatibility

(EMC) Standards:

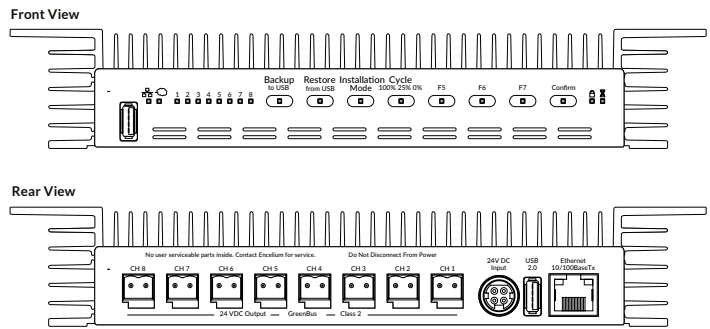
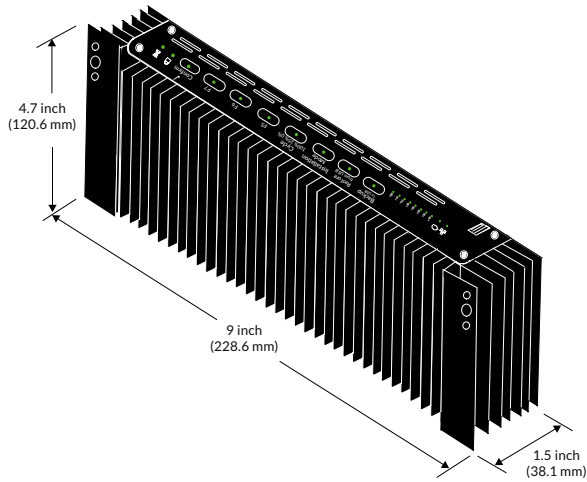
- EN 61000-4-2
- EN 61000-4-4
- EN 61000-4-5



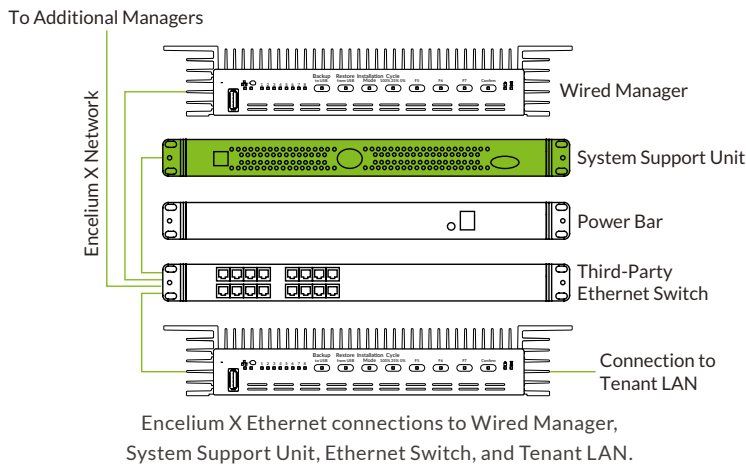
Ordering Information

Item Number	Ordering Code	Description	Communication Network	System Compatibility	Modifiers
56335	EN-M-GB2-X	Wired Manager	GreenBus	Encelium X	—
45208	EN-ECU-G4-P3D	Wired Manager	GreenBus	Encelium Extend	—

Dimensions



Installation Diagram



Footnotes:

- ¹ Should only be used with the instruction from Encelium personnel.
- ² LED located on front of unit.
- ³ Power supply provided with Wired Manager.
- ⁴ Do not connect to UPS or emergency power.
- ⁵ Install in accordance with all applicable national and local electrical and building codes.

Mounting Details

The mechanical construction allows the Wired Manager to be attached to a 19 inch (482.6 mm) wide bracket, for simple installation on standard 19 inch (482.6 mm) IT rack (1U width), or optional 4U wall mounted rack (as shown below). The 19 inch (482.6 mm) wide bracket is provided with the Wired Manager. For individual wall-mount, the mounting ears on the Wired Manager can be used to secure against a vertical surface without needing an external mounting bracket. Refer to the Encelium X Contractor Installation Manual for detailed mounting and wiring instructions.

