

GreenBus Communication

GreenBus Communication

Date: _____

Quantity: _____

Company: _____

Project: _____



GreenBus™ by Encelium is a communication architecture technology designed specifically for controlling thousands of luminaires in a building that also integrates peripheral devices such as occupancy sensors, photosensors, relay-based controls, switch packs, and low-voltage wall keypads and touch panels into a complete, programmable lighting control system.

What is unique about GreenBus? GreenBus is a Class 2 network, which provides low voltage power to all devices on the network eliminating the need for external power supplies and power packs for devices such as occupancy sensors and keypads

GreenBus allows flexible daisy chain wiring topologies and the ability to add luminaires or control devices in-circuit at any time. Different devices may be connected randomly on the network and special termination of each network channel is not required. Automatic addressing of individual nodes during system commissioning simplifies installation by eliminating the need to pre-address devices or record serial numbers during the process.

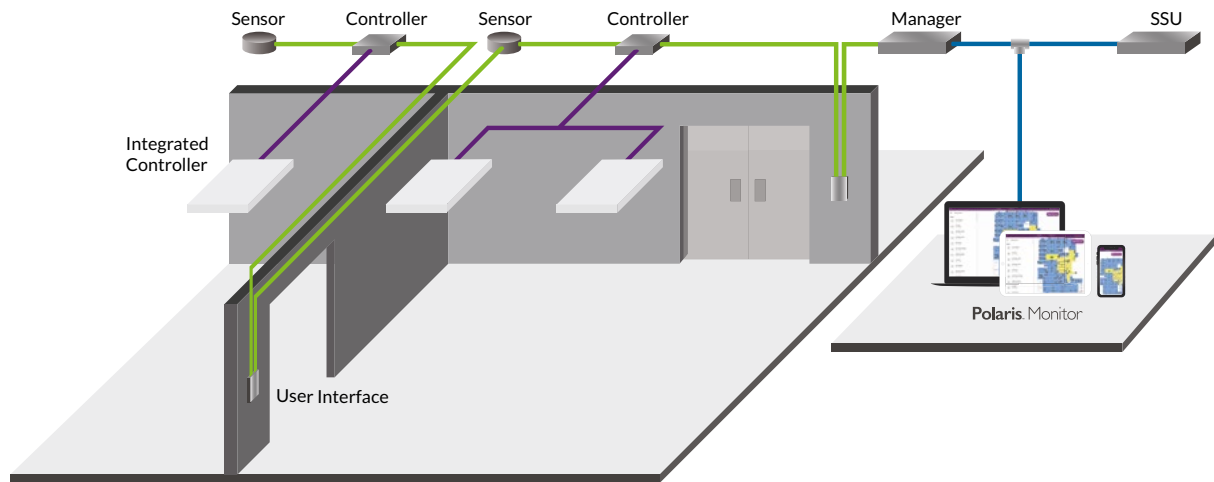
To learn more about GreenBus visit www.encelium.com/about/learn/greenbus

Key Features & Benefits

- Cost-effective wired solutions for seamless lighting controls
- Integrates a range of devices (load controllers, occupancy sensors, and wallstations) into a complete solution
- Flexible and scalable extending the life of your lighting control system
- Enables a hybrid wired and wireless installation into a single site.
- Allows electrical contractors to quickly verify wiring installations and obtain occupancy permits

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

Typical Number of Devices

- Up to 100 nodes per channel

Communication Bus

- Class 2, pre-terminated cable with connectors

Topology

- Independent connection

PHYSICAL

Cable Lengths

- 20 ft (6.1 m)
- 1,000 ft (305 m) bulk

WARRANTY

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

CERTIFICATIONS & SAFETY

Cable Approbations

- UL—FT6
- CSA—CMP

Environmental Suitability

- Flame rated jacket for plenum use NFPA 262



GreenBus Cable

The GreenBus communication network is created using two pre-terminated 18 AWG conductors. GreenBus is a Class 2, polarity independent communication bus that connects to the Encelium X Networked Light Management System. The maximum connected length of wiring is up to 2,500 ft (762 m) per channel.



Ordering Information

Item Number	Ordering Code	Description	Communication Network
45260	EN-PTC-20FT-GB2	20 ft (6.1 m) Cable	GreenBus
45263	EN-BC-1000FT-GB2	1,000 ft (305 m) Cable	GreenBus

PTC = Pre-Terminated Cabling
BC = Bulk Cabling

GreenBus Tester

The GreenBus Tester is an Installation and Testing Tool required for testing the wiring of a new GreenBus installation.

Ordering Information

Item Number	Part Number	Communication Network
45272	EN-ITT-GB2	GreenBus



