

# GreenBus II® Network



The GreenBus II® bus system is a communication technology designed specifically for controlling lighting to achieve maximum energy savings and optimum lighting comfort.

GreenBus II enables cost effective, individual dimming control of thousands of fixtures in a building and integrates peripheral devices such as occupancy sensors, photo sensors, relay-based controls, switch packs and low voltage wall controls into a complete, programmable lighting control system. Each GreenBus II channel originates at an ENCELIUM® EXTEND Manager and typically propagates in a daisy-chain fashion from device to device, although it is topology free and "T" connections are acceptable.

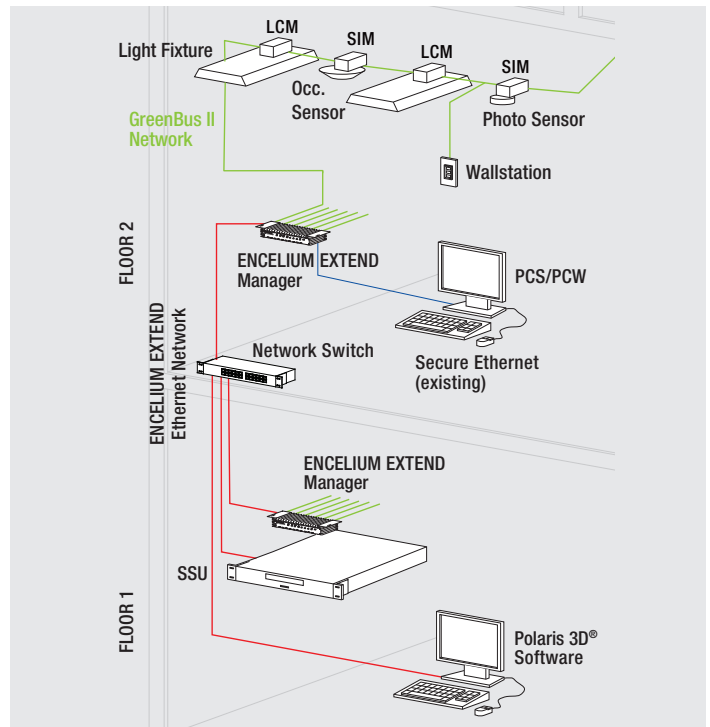
GreenBus II is a Class 2 network, which provides low voltage power to all devices on the network eliminating the need for external power supplies and power packs for devices such as occupancy sensors.

GreenBus II allows flexible daisy chain wiring topologies and the ability to add fixtures 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.

## Key Features & Benefits

- Cost-effective solution allows dimming control of individual luminaires
- Integrates peripheral devices into a complete programmable lighting control system
- Flexible and scalable extending the life of your lighting control system

## ENCELIUM® EXTEND Networked Light Management System Architecture



### System Architecture

This illustration shows how each component is easily integrated into the ENCELIUM EXTEND Networked Light Management System (LMS). GreenBus II is a two-wire communication topology for supplying data and power to the system. Each light fixture, sensor, and wall controller is daisy chained back to the ENCELIUM EXTEND Manager using pre-terminated 'click & go' GreenBus II communication cabling. Managers typically control individual floors and are linked via an Ethernet Network. Internet or LAN connection allows floor plan based control software to be operated anywhere on the network. For reference, the component shown on this data sheet is highlighted.

## Ordering Information

### GreenBus II® Cable

Item #	Ordering Description	Field Bus	Cable Length
45275	EN-PTC-0.5FT-GB2	GB2	0.5ft
45276	EN-PTC-01FT-GB2	GB2	1ft
45257	EN-PTC-05FT-GB2	GB2	5ft
45258	EN-PTC-10FT-GB2	GB2	10ft
45259	EN-PTC-15FT-GB2	GB2	15ft
45260	EN-PTC-20FT-GB2	GB2	20ft
45261	EN-PTC-25FT-GB2	GB2	25ft
45262	EN-PTC-50FT-GB2	GB2	50ft
45263	EN-BC-1000FT-GB2	GB2	1000ft

PTC = Pre-Terminated Cabling  
BC = Bulk Cabling

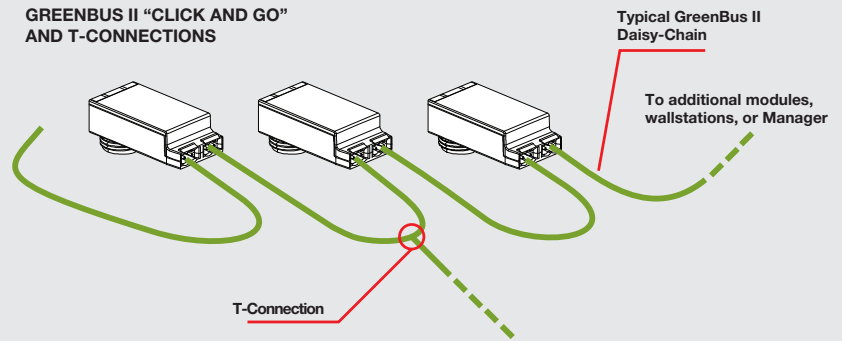
## Specifications

- Class 2 communication bus pre-terminated with connectors
- Available lengths: 0.5 ft., 1 ft., 5 ft., 10 ft., 15 ft., 20 ft., 25 ft. 50 ft. and 1,000 ft. lengths; custom lengths available
- Topology independent connection
- Flame rated jacket for plenum use  
NFPA 262 (UL: FT6, CSA: CMP)
- Typical number of devices (nodes) per channel: 100

## GreenBus II Cable

The GreenBus II communication network is created using two pre-terminated 18 AWG conductors. GreenBus II is a Class 2, polarity independent communication bus that connects to the ENCELIUM® EXTEND Networked Light Management System. The maximum connected length of wiring is 2500 ft. per channel.

Standard, pre-terminated 0.5 ft, 1 ft, 5 ft, 10 ft, 15 ft, 20 ft, 25 ft, 50 ft, and 1,000 ft lengths reduce installation time by eliminating on-site cable cutting and crimping. General or specific GreenBus II layout assistance is available at any time from technical support.



## GreenBus II Installation and Testing Tool

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

Item #	Ordering Description	Field Bus
45272	EN-ITT-GB2	GB2



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