

GREENBUS™ NETWORK

Encelium's GreenBus™ communication technology is a bus system designed specifically for controlling lighting to achieve maximum energy savings and optimum lighting comfort.

GreenBus™ 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.

GreenBus™ 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. Associated installation labor for line voltage wiring and conduit is eliminated.

Using RS485, one of the industry's most reliable communication buses, GreenBus™ 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.

SYSTEM ARCHITECTURE

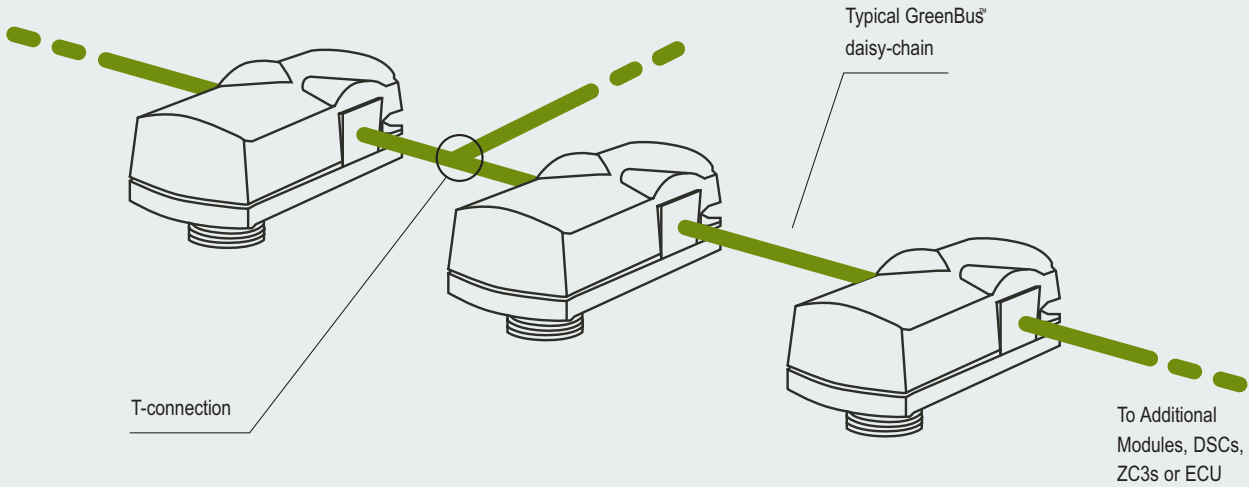
This illustration shows how each component is easily integrated into the Encelium Energy Control System. Each light fixture, sensor and lighting controller is daisy-chained back to the Energy Control Unit (ECU) using prefabricated 'click & go' GreenBus™ communication cabling. ECUs typically control individual floors and are linked via Cat.5 to form the Encelium Network. Internet or LAN connection allows Windows floor plan based control software to be operated anywhere on the network. For reference, the component shown on this data sheet is highlighted. ■

GREENBUS™ CABLE

The GreenBus™ communication network is created using prefabricated category 3/category 5 network cables with RJ45 ‘click and go’ connectors. Cable jacketing provides Plenum flame rating for maximum flexibility in running GreenBus™ networks.

Standard, prefabricated 5 ft, 10 ft, 15 ft, 20 ft, 25 ft and 50 ft lengths speed installation by installers by eliminating on-site cable cutting and crimping. General or specific GreenBus™ layout assistance is available at any time from Encelium technical support.

GREENBUS™ “CLICK AND GO” AND T-CONNECTIONS



Greenbus Diagnostic Tool also available
GBDT-400

SPECIFICATIONS

- Cat.3/ Cat. 5 UTP communication cable
- Prefabricated with RJ45 connectors
- Flame rated jacket for plenum use (UL: FT6, CSA: CMP)
- Power Supply: Up to 24 VDC for sensors
- Typical Number of Devices (Nodes) Per Channel: 75 (consult factory for load optimization)
- Number of Channels Per ECU: 6
- Maximum Channel Length: 2,500 ft (Maximum channel length may vary based on channel characteristics. Runs over 1500 ft, please consult factory)
- Available in standard 5 ft, 10 ft, 15 ft, 20 ft, 25 ft and 50 ft lengths
- Custom lengths available

Specifications subject to change without notice.

Install in accordance with all applicable national and local electrical and building codes.

- Cat. # GBC-400-5 (5 ft)**
- Cat. # GBC-400-10 (10 ft)**
- Cat. # GBC-400-15 (15 ft)**
- Cat. # GBC-400-20 (20 ft)**
- Cat. # GBC-400-25 (25 ft)**
- Cat. # GBC-400-50 (50 ft)**
- Greenbus Diagnostic Tool GBDT-400**



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