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|---|---|---|---|---|---|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |

# WaveLinx Wired

## External Power Supply (EXPS-15V)

Network Aux Power Supply used to power user interfaces and other accessories when additional power is needed

**Typical Applications**
Office • Education • Healthcare • Hospitality • Retail

### Interactive Menu



### Product Certification

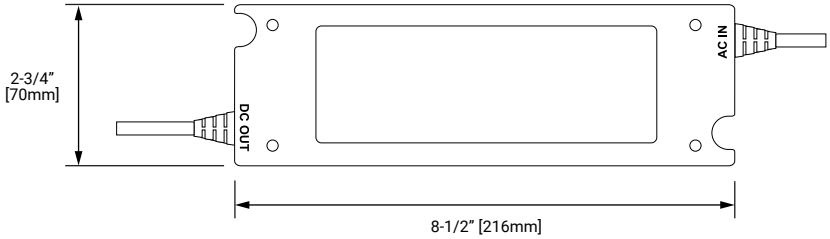
### Product Features

WaveLinx Wired Local Bus

### Top Product Features

- Each External Power Supply is capable of extending the cable run an additional 1,000 feet, or 10 wall stations. A BN-2-NA Bridge/Repeater device will also be necessary if the cable length is extended beyond 3,200 feet or 100 devices
- The EXPS-15V power supply may also be used to power peripheral devices such as IRTR partitioning sensors
- If there are more than 10 wall stations and/or cable runs are greater than 1,000 feet, an External Power Supply is to be used. Each External Power Supply is capable of extending the cable run an additional 1,000 feet, or 10 wall stations
- Universal AC Input
- 15Vdc Output
- Short Circuit/Overload/Over Voltage/Over Temperature Protection
- Built-in constant current limiting circuit
- Active Power Factor Correction
- Class 2 Power Supply

### Dimensional Details



## Order Information

Catalog Number

| Catalog Number | Description |
|---|---|
| **EXPS-15V** | External Power Supply |

## Product Specifications

### Key Features

- System accessory for the WaveLinx Wired Lighting Control System
- Used to power user interfaces and other accessories when additional power is needed

### Mechanical

**Size:** 8.5" x 2.75(216mm x 70mm)
**Weight:** 0.49 lbs (0.22 kg)
**Environment:**

- **Operating temperature:** -22°F to +122°F (-30°C to 50°C)
- **Storage temperature:** -40°F to +176°F (-40°C to 80°C)
- **Relative humidity operating:** 20% - 90% non-condensing
- For indoor use only

**Mounting:** 2 Holes for surface mounting
**Housing:** IP64 Plastic Enclosure

### Electrical

- Short Circuit/Overload/Over Voltage/Over Temperature Protection Circuits
- Built-in constant current limiting circuit
- Active Power Factor Correction

**Input:**

- Range input voltage: Universal AC Input Range (90-264 VAC)
- Rated input current: 40A Max @ 230 VAC (cold start)
- Rated input frequency: 47-63 Hz
- Universal AC Input

**Input Current:**

- 400mA max @ 115 VAC/ 200mA max @ 230 VAC (continuous)

**Power supply type:** Class 2
**Power supply output:** 15 VDC Output

- 15V 2000mA Output

### Standards/Ratings

- cULus Listed

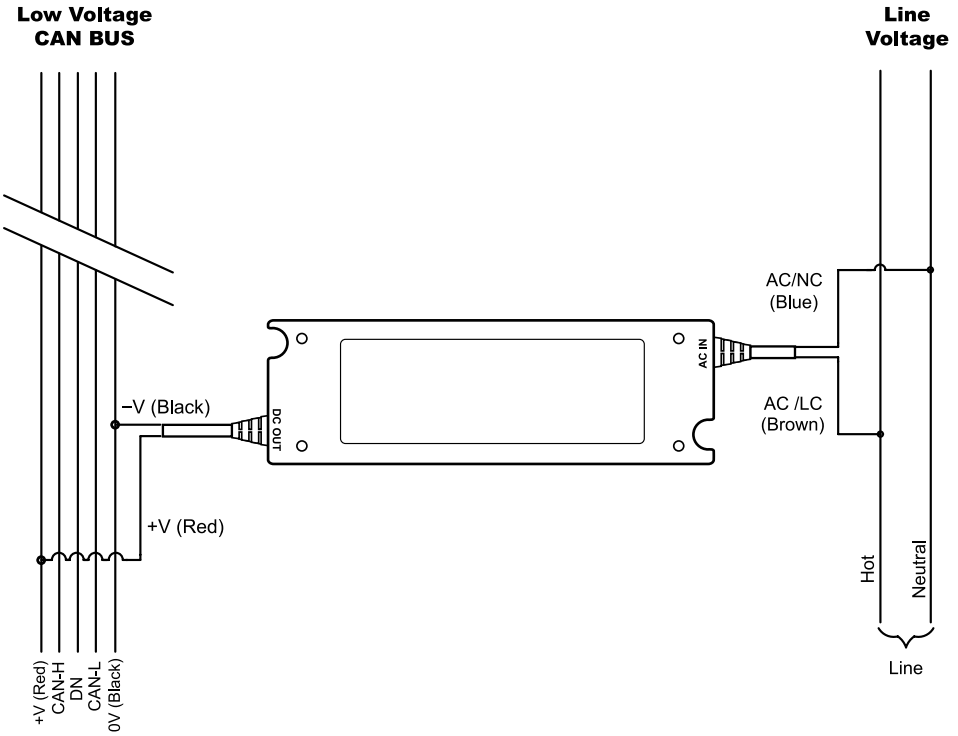
**Environmental Regulations:**

- RoHS Directive 2011/65/EU

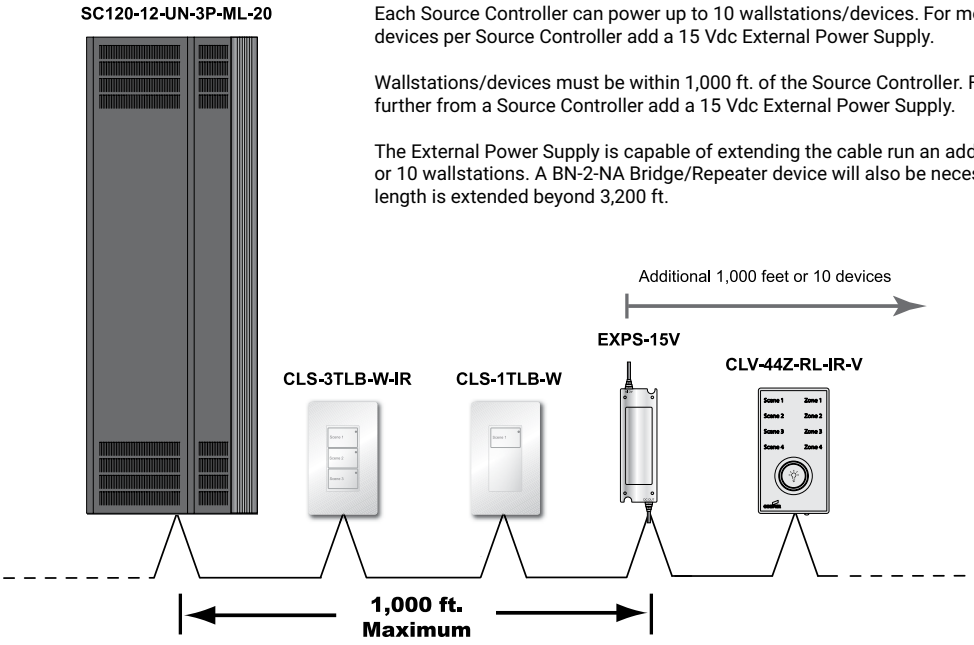
### Warranty

Five year warranty standard

## Wiring Diagrams




## Sample System Topology



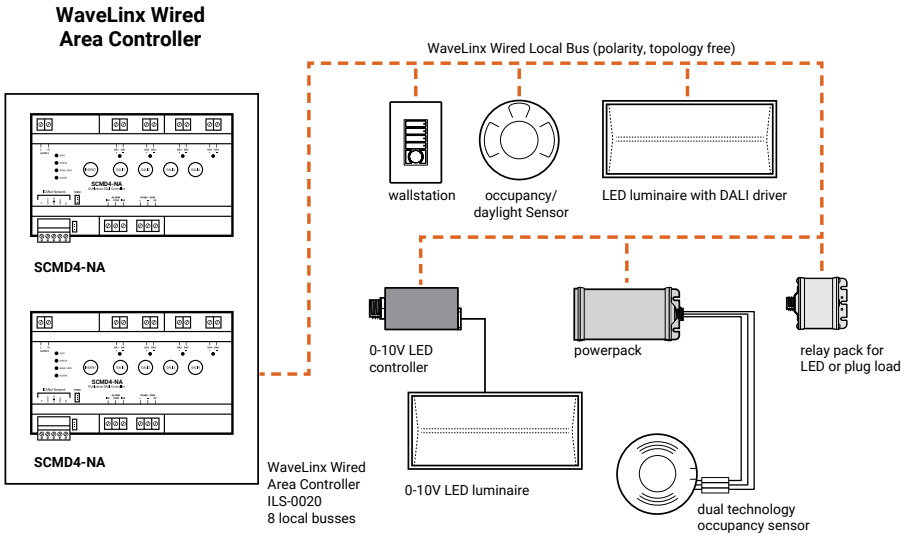

Each Source Controller can power up to 10 wallstations/devices. For more than 10 wallstations / devices per Source Controller add a 15 Vdc External Power Supply.

Wallstations/devices must be within 1,000 ft. of the Source Controller. For wallstations / devices further from a Source Controller add a 15 Vdc External Power Supply.

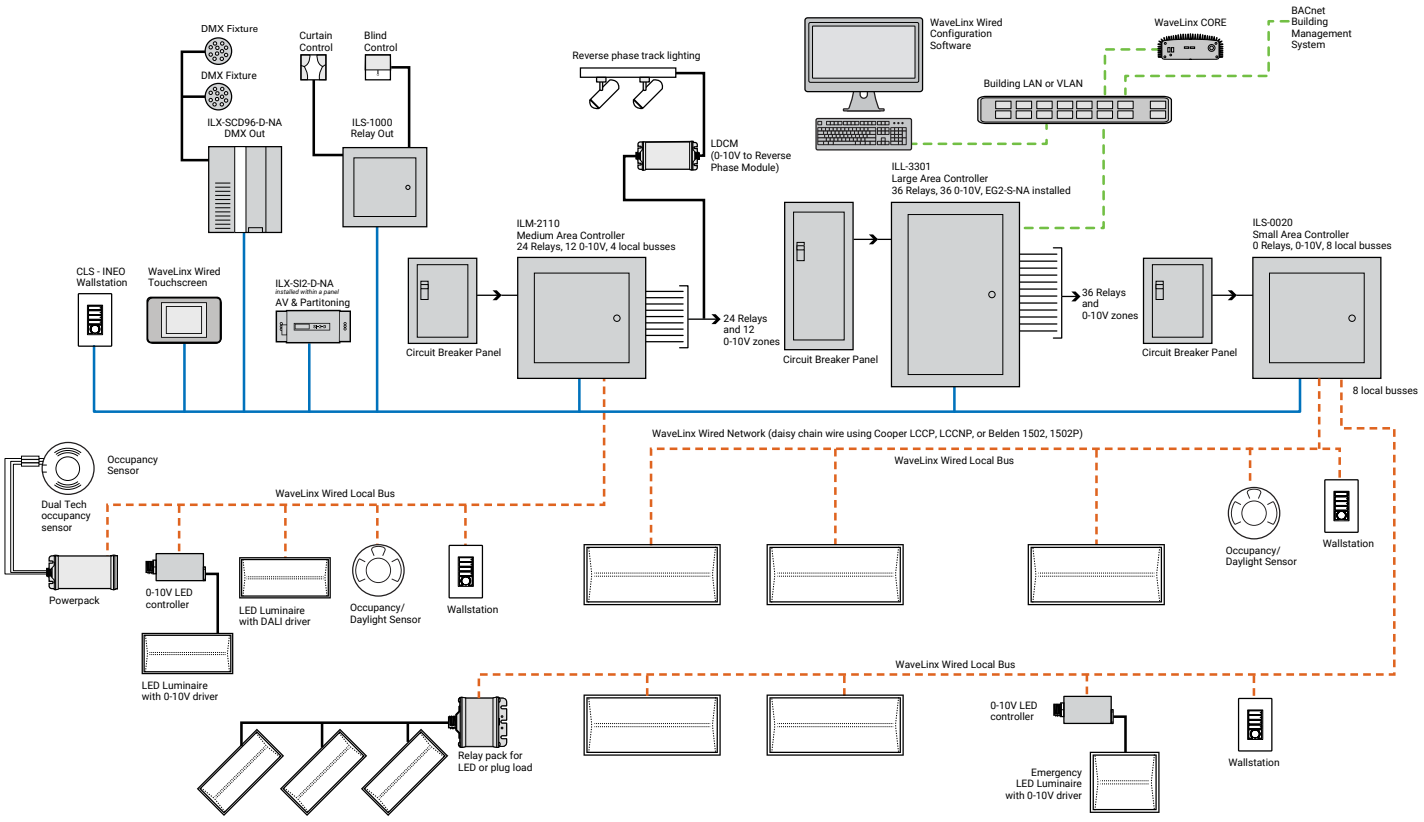
The External Power Supply is capable of extending the cable run an additional 1,000 ft., or 10 wallstations. A BN-2-NA Bridge/Repeater device will also be necessary if the cable length is extended beyond 3,200 ft.

## System architecture

Simple WaveLinx wired system




Complete WaveLinx wired system



## Sample System Topology:

This diagram shows the main components of the WaveLinx wired and PRO wireless connected lighting system.

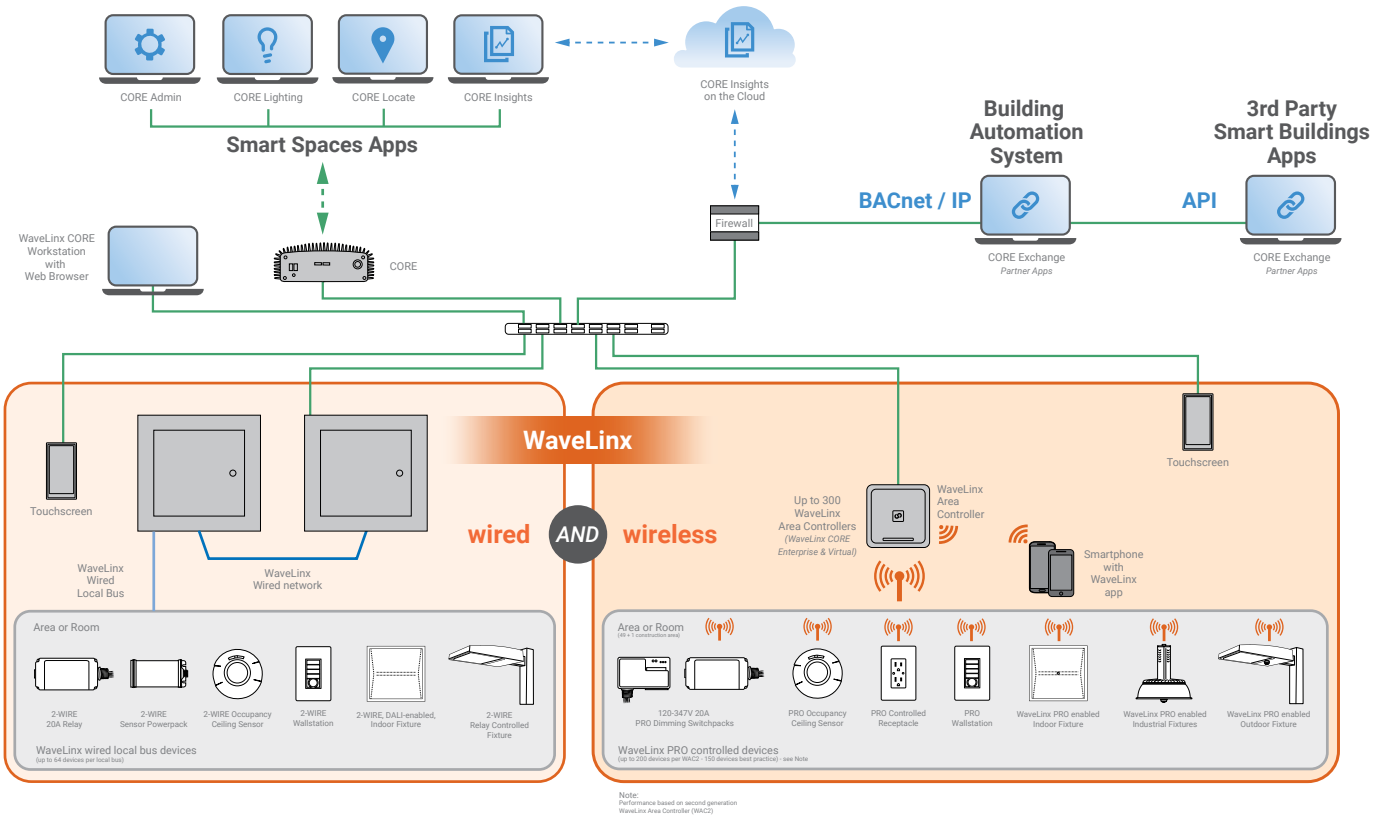
The **WaveLinx PRO wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

The **WaveLinx wired system** controls the devices using relay, 0-10V, DMX and the WaveLinx wired digital local bus. The WaveLinx wired system connects to the building LAN using the EG2 module. Each WaveLinx wired area controller communicates on the WaveLinx wired network.

WaveLinx Area Controllers (WAC) and WaveLinx Ethernet Gateways (EG2) communicate with WaveLinx CORE over the Ethernet network.

Please refer to the WaveLinx PRO Wireless Network and IT Guidance Technical Guide and WaveLinx Wired Network and IT Guidance Technical Guide for more information.

View WaveLinx Network and IT Guidance Technical Guide




## Control Systems

- WaveLinx
- WaveLinx wired
- VividTune



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