Project		Catalog #		Type	
Prepared by		Notes		Date	

connections

WaveLinx Wired

ILX-BN2-D-NA

DIN Rail Network Bridge

Typical Applications
Office • Education • Healthcare • Industrial

Interactive Menu

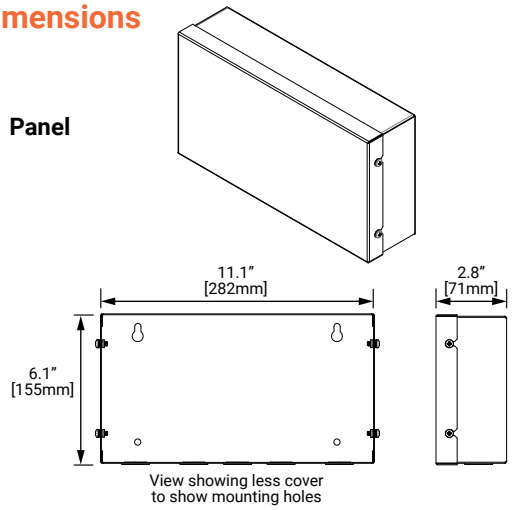
Product Certification

Top Product Features

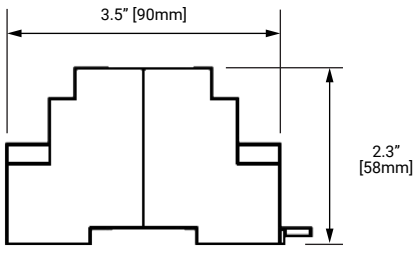
- **Connected 2 or more iCANnet networks together –** Allows users to easily manage floors and areas requiring more than one iCANnet network, enabling up to 65,000 devices to exist on a single system.
- **Network Repeater –** Extend the network as a repeater where more than 1640 ft (500m) of cabling is required or more than 100 network devices are used on one segment.
- **Configurable profile –** User can configure the BN2-D-NA as a network bridge filter to repeater.

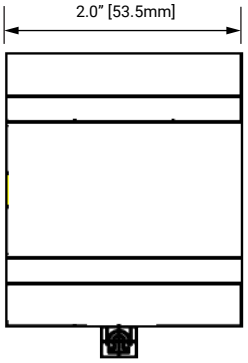
Dimensions

Panel



Network Bridge





Order Information

Catalog Number

Catalog Number	Description
BN2-D-NA	WaveLinx Wired DIN Rail Network Bridge
ILX-BN2-D-NA	WaveLinx Wired XS Panel assemby with Network Bridge
Note	
BN2-D-NA network bridge is ordered as a component inside WaveLinx Wired ILP Panels	

Product Specifications

Key Features

- Configurable as Network Bridge Filter or Repeater
- Enables Larger networks by segmenting long cable runs
- Single control of multiple iCANnet™ networks
- Enables networks to grow beyond 500m of cabling
- Allows larger multi story applications to be installed and commissioned floor by floor
- CE compliant to all relevant standards
- Designed and manufactured to ISO9001:2015 standards

Mechanical

Size: 6.1" W x 11.1" H x 2.8" D (155mm x 282mm x 71mm)

Environment:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- **Relative humidity:** 0-90%, non-condensing
- For indoor use only

Housing: Powder coated steel

Electrical

Power supply: 9 – 24Vdc via iCANnet™

Wiring:

- **Network termination:** Screw terminals within two-part connectors, able to accept 16 awg (1.5mm²) stranded or solid wire.
- May require separate power supply from network supply (eg isolated network backbone configuration)

Standards/Ratings

- cULus
- CE compliant
- Designed and manufactured to ISO9001:2015 standards

Warranty

Five-year warranty standard

Overview

BN2-D-NA is a DINrail mounted bridging module that allows 2 or more iLight iCANnet™ network segments to be connected together or arranged logically into floors or areas for ease of management hence enabling up to 65,000 devices to exist on a single system.

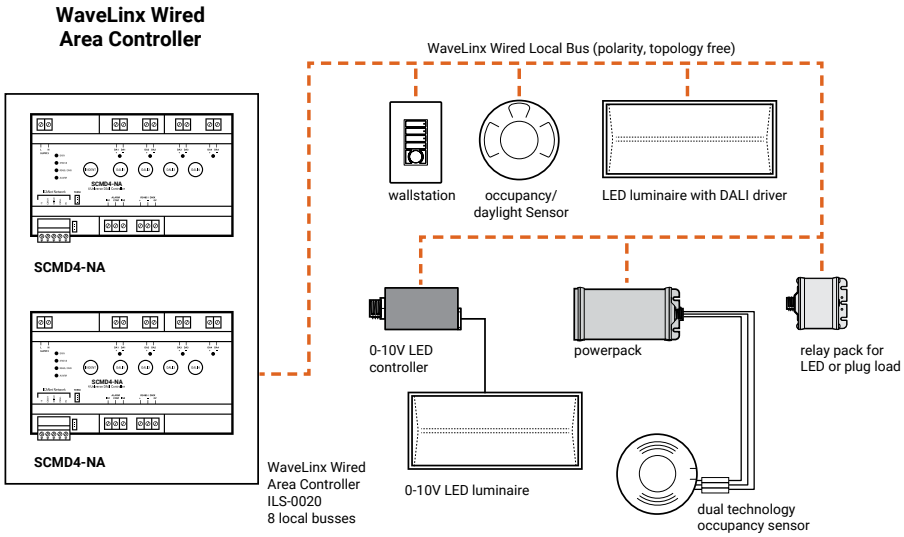
The bridge is also used to extend the network as a repeater where more than 500m of cabling is required or more than 100 network devices are used on one segment.

BN2-D-NA also allows network messages to be filtered to ensure optimal performance in larger networks.

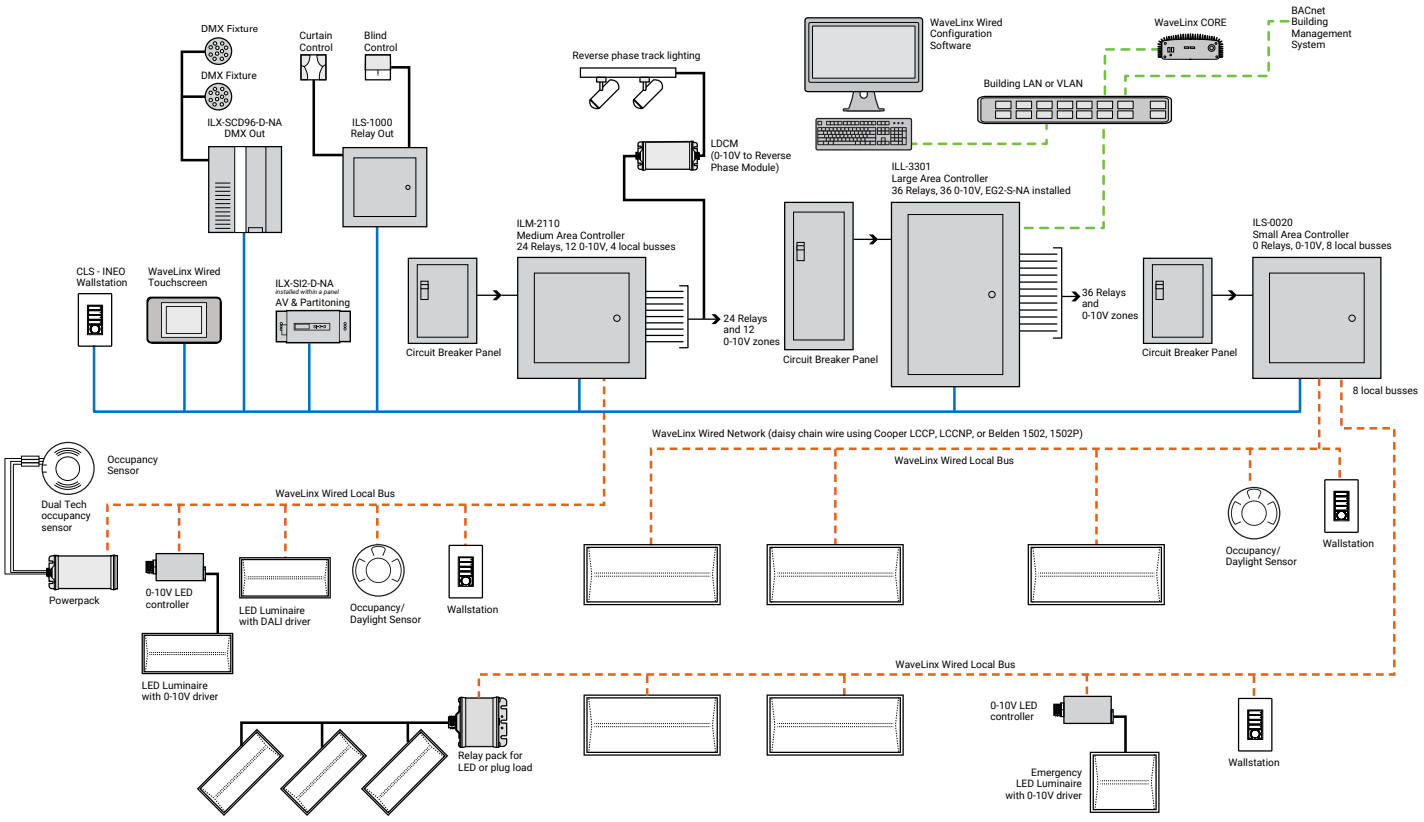
Finally, the network bridge improves reliability of larger systems by isolating and containing any network cabling faults when used correctly.

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.

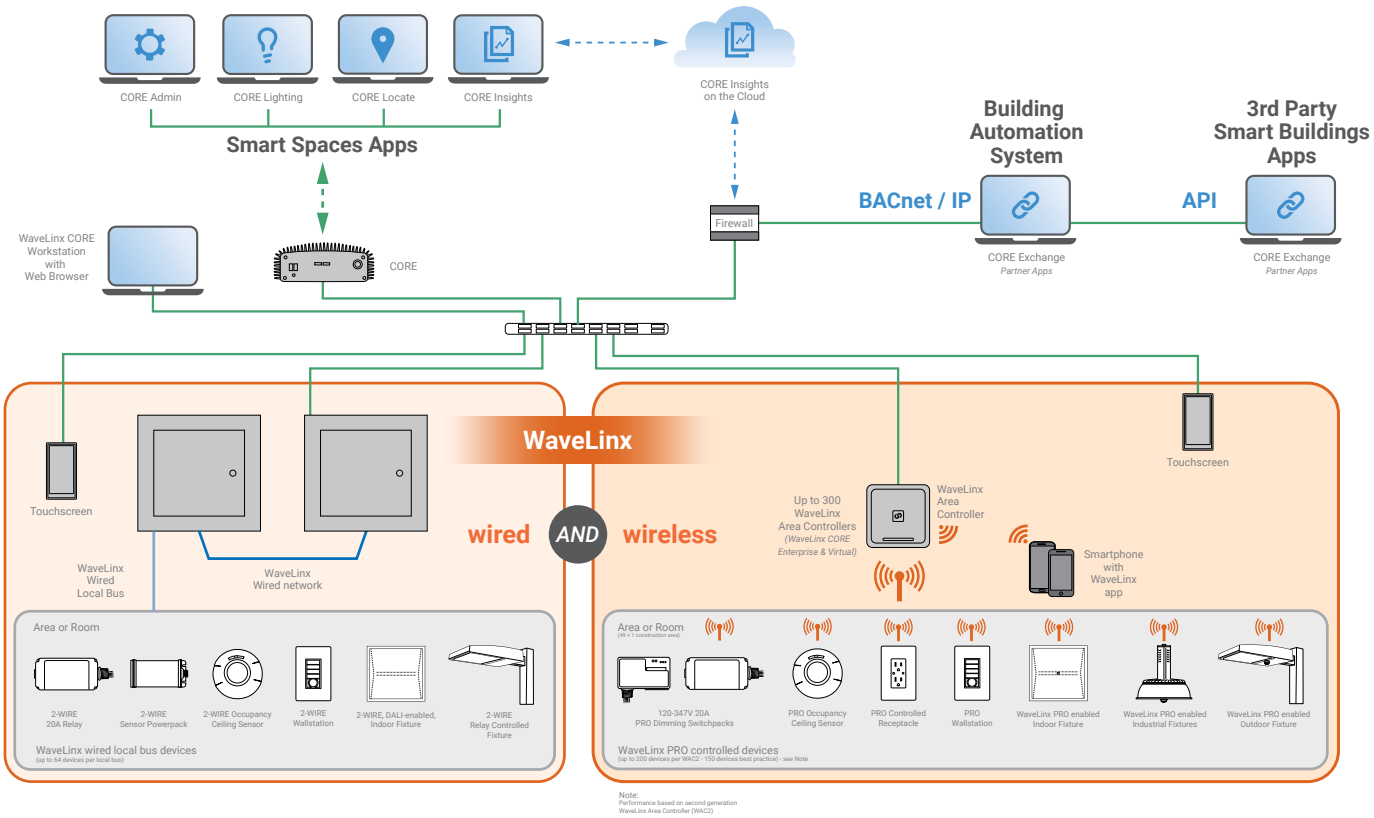
The **WaveLinx PRO wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

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