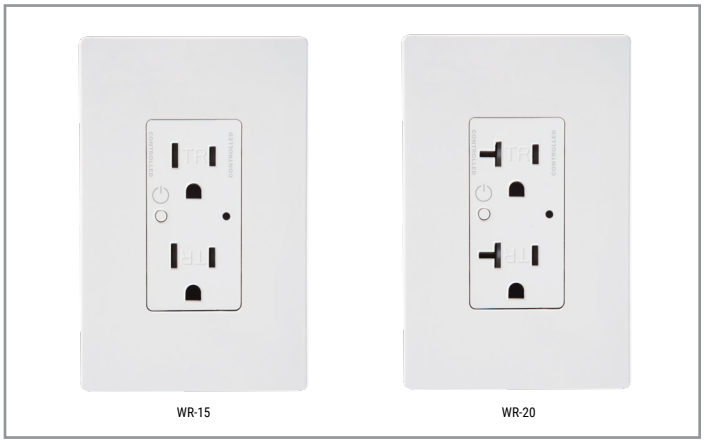
Project		Catalog #		Type	
Prepared by		Notes		Date	



WaveLinx Wireless

Receptacle

Wireless receptacle enables energy savings by turning OFF the top outlet when the area is unoccupied

Typical Applications

Office • Education • Healthcare • Hospitality • Retail
Industrial • Manufacturing

Interactive Menu

Product Certification

Part 15/ECES-003

- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

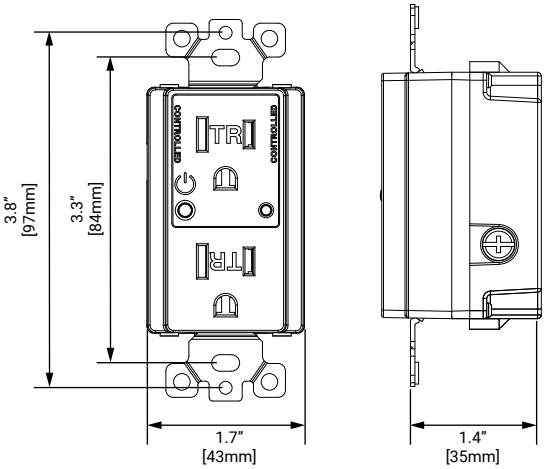
Product Features

IEEE 802.15.4 | Device Security | Customer Security | Receptacle Control

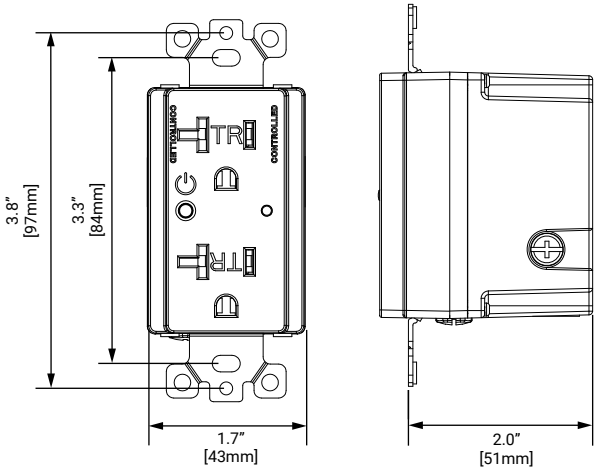
Top Product Features

- Manual ON/OFF control push button
- Green/red color LED for status suitable for loads up to 20A
- Simplified plug load control
- Drag and drop programming via WaveLinx Mobile application
- Supports overrides for Demand Response
- Decorator style color match wallplates
- Energy calculations available through Trellix

Dimensional Details



WR-15



WR-20

additional product diagrams

Order Information

The wireless receptacle is an accessory to the WaveLinx Connected Lighting (WCL) system and requires a Wireless Area Controller (WAC) for full functionality.

The wireless receptacle is used to provide plug load control in spaces and can be mapped to multiple occupancy sensors in an area.

Catalog Number

Catalog #	Description
WR-15	WaveLinx Receptacle 15A
WR-20	WaveLinx Receptacle 20A

Required Accessories

All WaveLinx Connected Lighting (WCL) system accessories require at least one Wireless Area Controller (WAC) for communications. Ensure the bill of material includes one of the following components.

Catalog Number

Catalog Number	Description
WAC-POE	Wireless Area Controller, POE powered

Optional Accessories

For connection to 120VAC outlets.

Catalog Number

Catalog Number	Description
WPOE-120	120VAC to PoE Injector

Product Specifications

Key Features

- Manual ON/OFF control push button
- Green/red color LED for status suitable for loads up to 20A
- Simplified plug load control
- Drag and drop programming via WaveLinx Mobile application
- Supports overrides for Demand Response
- Decorator style color match wallplates
- Provides power measurement reporting

Mechanical

Size:

- WR-15: 1.7" x 3.8" x 1.4" (43mm x 97mm x 35mm)
- WR-20: 1.7" x 3.8" x 2.0" (43mm x 97mm x 51mm)

Environment:

- **Operating temperature:** 32°F to 113°F (0°C to 45°C)
- **Storage temperature:** 32°F to 167°F (0°C to 75°C)
- **Relative humidity operating:** 5% to 95% non-condensing
- For indoor use only

Mounting: Evenly spaced throughout room, every six feet typical
Color: White

Electrical

Input power: 120VAC
Connections: Hot, Neutral, Ground
Output:

- WR-15: 15A constant hot and controlled load
- WR-20: 20A constant hot and controlled load

Hardware Specifications

Indicators and Pushbuttons:

- Button LEDs:
  - White/Green
- LED functionality:
  - Indication of controlled load
  - Indication of wireless network connection
- Pushbutton:
  - Toggle controlled load relay
  - Press and hold for wireless identification

Wireless Specifications

Radio: 2.4GHz
Standard: IEEE 802.15.4
Transmitter Power: + 7dBm
Configuration type: Router, End Point
Range: 150ft (50m) LOS
# of Walls: 2 interior walls standard construction

System Performance

Maximum number of Devices: 150 per Wireless Area Controller (best practice 100 devices)

Standards/Ratings

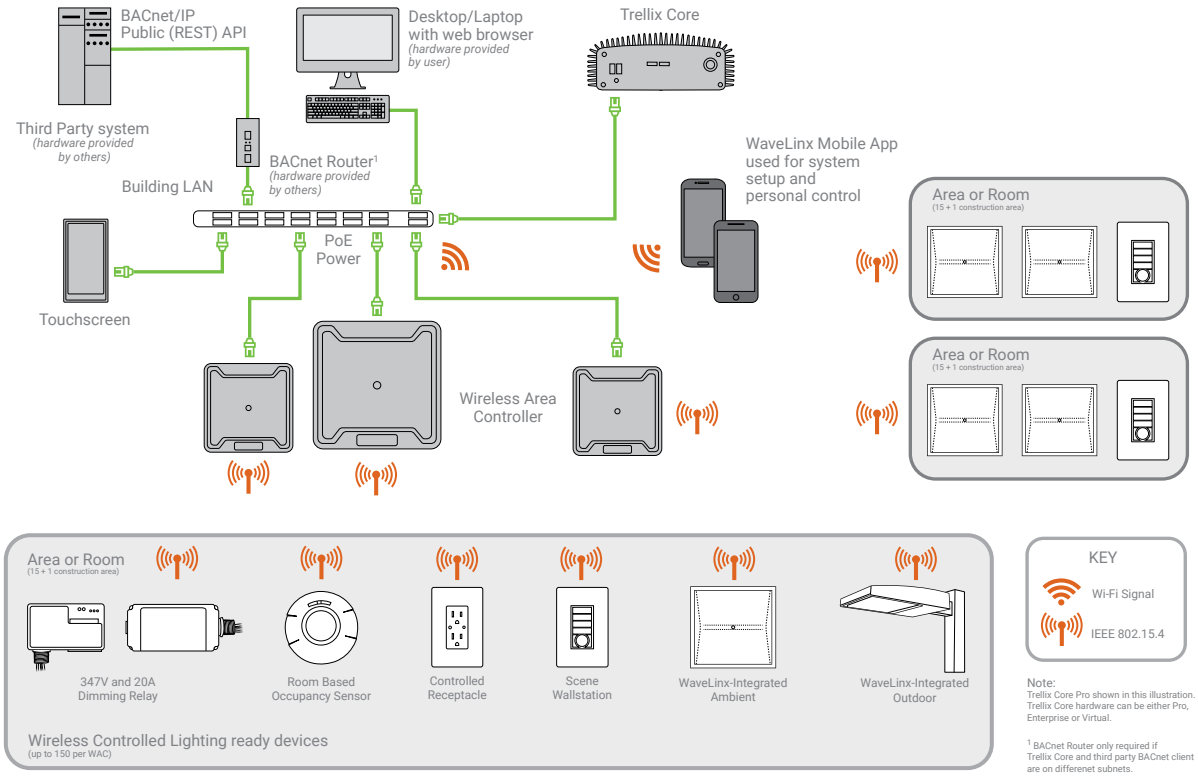
- cULus Certified
- FCC Part 15
- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

Warranty

Five year warranty standard

System Architecture

This diagram shows the main components of the WaveLinx Connected Lighting (WCL) system. The WaveLinx system communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A POE LAN connection for each Wireless Area Controller (WAC) is required for power. Data access to the consumer provided building network is supported by the wireless area controller via it's PoE ethernet port or the on board IEEE 802.15 Wi-Fi radio. System setup is achieved through a simple mobile application via wireless communication to the system.



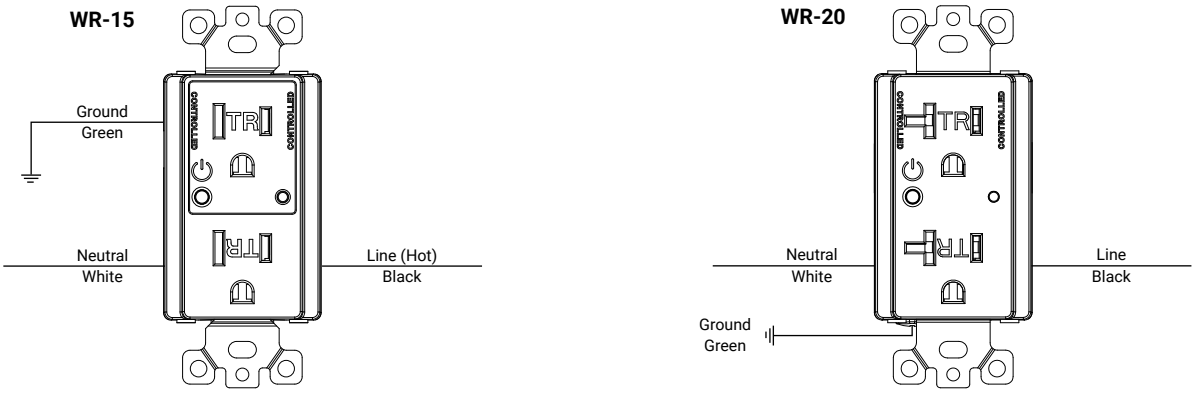
Overview

The wireless receptacle is an integral part of the WaveLinx Connected Lighting (WCL) System and provides simplified wireless plug load control. Plug load control is required now in many building codes as part of an energy saving control strategy. The wallbox mounted wireless duplex receptacle provides a constantly powered bottom outlet and a wireless controlled (and power metered) top outlet. The NEMA wireless receptacle includes the NEMA symbol for identifying a controlled receptacle as well as tamper resistant outlets for safety. The wireless receptacle operates on a wireless mesh network based on IEEE 802.15.4 standards.

As part of the WaveLinx System, the commercial grade wireless receptacle enables energy savings by turning OFF the top outlet when the area is unoccupied. The wireless receptacle is automatically paired with all WaveLinx occupancy sensors in a space when it is assigned to an area using the Wavelinx Mobile application. The wireless receptacle uses standard AC power wiring and has an internal relay that will Open/Close the controlled outlet. The use of wireless control features of WaveLinx reduces the wiring needed during installation. Use of the wireless control features of the receptacle also includes power measurement capabilities that can provide energy calculations information available through Trellix.

Installation

These receptacles may be used in new installations or to replace an existing wall receptacle.



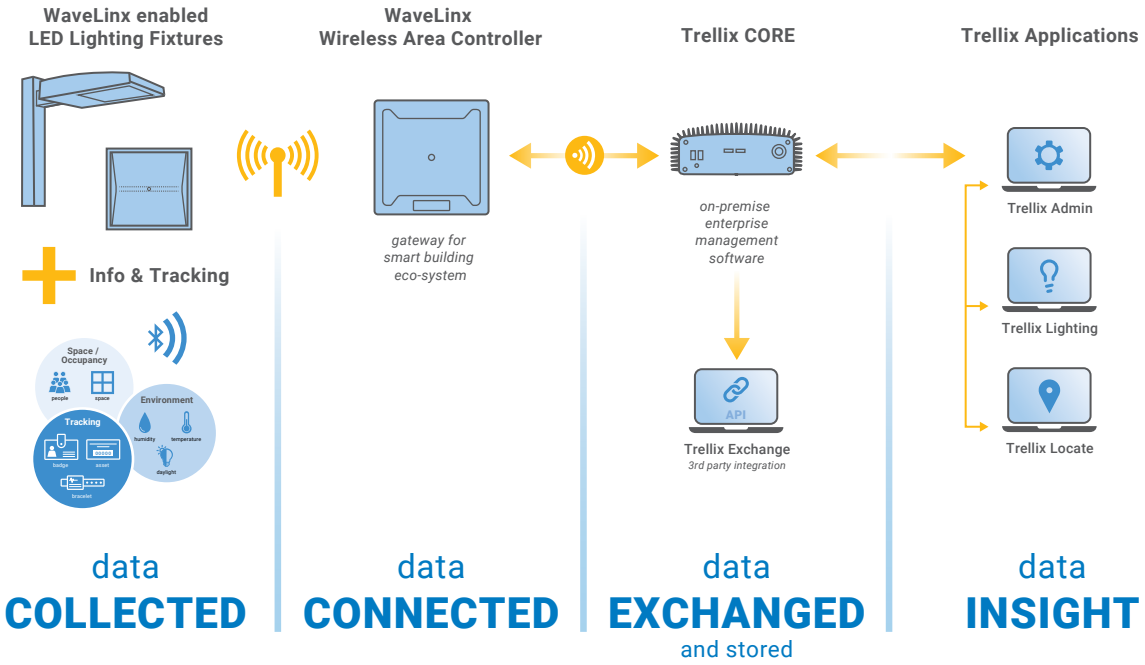
Connected Systems

- Trellix

Better Data. Better Decisions.

Trellix combined with our WaveLinx Connected Lighting System is a distributed network of LED lighting fixtures with integrated sensing and beacon technology that captures real-time data; making your facility smarter so you can make smarter decisions.

Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems in a commercial building to deliver actionable insights through the aggregation of valuable data.



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