WaveLinx
Wireless Connected Lighting System

EATON
Powering Business Worldwide
WaveLinx Wireless Connected Lighting System

EATON POWER
Unparalleled knowledge of electrical power management

LIGHTING
Advanced LED fixtures

CONNECTIVITY
Communications & sensing technology
Physical devices & controllers

APPS / SOFTWARE
Data accumulation & analysis
Software applications

Take compliance, network security and energy savings into your own hands
Automatic code compliance. 7-Tier network security features. Integrated wireless sensors to collect and transmit key building data. And, the ability to control your system from a mobile app and the ability to exchange data with third party applications.
It's simple: WaveLinx just works.

Connected Lighting simplified by Eaton
Say goodbye to the high costs and complexity of typical addressable control systems

WaveLinx is designed for plug-and-play connectivity, for either stand-alone or building network applications.

**Stand-Alone Installation:**
For smaller office spaces within a larger building.
- IT setup not required
- Scalable to join larger network
- Set up and manage the system via mobile app

**Network Installation:**
For entire building connectivity.
- Smart building ready
- Simple configuration
- Security features for peace of mind
- BACnet and Public API (REST) integration
- Real-time alarms with smart tips

**Flexible, turnkey installation**

Lighting Xpert Insight software
BACnet | Public API (REST)
For many WaveLinx applications, installation is so simple, it’s not even necessary to involve IT.

KEY
- Wi-Fi Signal
- IEEE 802.15.4

ambient LED lighting fixtures with occupancy and daylighting sensor

outdoor area/site/flood LED lighting fixtures

WaveLinx mobile app
Technology
Industry-leading technology, in a simple package

WaveLinx out-of-the-box functionality provides the fastest control confirmation on the market. It’s also one of the easiest lighting systems to install and manage. WaveLinx is the designer and contractor choice for offices, medical buildings, educational facilities, and more.

Save on installation time and cost
WaveLinx is designed to get you up and running faster. In some cases, it’s not even necessary to involve IT.

Get off the job faster
The commissioning process doesn’t need to cause headaches or hang-ups. The WaveLinx built-in features reduce commissioning time by 40% or more.

Be smart building ready
Integrated sensors on the light fixtures gather real-time building data, so you can make more informed decisions and save energy. Data can be easily shared with your building enterprise platform via BACnet and Public API (REST).

Control it all, from your mobile device
View building stats and program multiple zone settings conveniently, with an easy-to-use mobile app.

Wireless, code-compliant, and cost-effective for today

Stay secure with unparalleled 7-tier network security features

Wireless Area Controller
Provides centralized coordination of multiple area control options

Lighting fixture with integrated sensor
Highly efficient LED fixtures

Wireless Wall Station/Receptacle
Provides wireless control of multiple and local areas

Mobile Applications
Provides personalized, local control from a tablet or smartphone

= up to 70% ENERGY SAVINGS
ASHRAE 90.1 2016 - 70%
IECC 2015 - 55%
T24 2016 - 70%
Automatic code compliance?
Yes, it’s true

No more waiting weeks for commissioning teams, code compliance hang-ups or missed opportunity costs. With WaveLinx, you can finish the job more quickly, and move on to the next.

- Automatic code commissioning meets or exceeds code requirements
- Wireless integrated sensors ensure maximum efficiency
- A simple mobile app allows building managers to easily adjust settings, even after the project has finished, with no need to go back into the wall
- Connected fixtures provide a platform for future scalability

WaveLinx reduces project commissioning time by 40% or more
The sensor is factory wired and ready to meet code out-of-the-box
LEDs on double-duty

With IoT technology, your lights are more than lights – they’re a gold mine for building information. Make better decisions with real-time, actionable data.

View key building information and optimize your zone settings, all from the mobile app:

- Occupancy/vacancy control lets you fine tune occupied light level and partial ON/OFF requirements
- Daylighting helps you harness your space’s natural light, and meet code requirements
- Multicolor LED status lights allow for easy system troubleshooting and diagnostics

Imagine if your lighting system helped you get off the job faster with controls and lighting that just work.
Stay secure with ultimate peace of mind

With information security threats and fears on the rise, WaveLinx is designed to keep your data on lockdown with seven tiers of security.

**Physical barriers to entry**
The WaveLinx server sits in the ceiling, and hidden from view.

**Network segmentation**
Isolated targets mean reduced for large scale breaches.

**Customer security**
NIST Cybersecurity Framework and industry best practices.

**Device security**
Features 128-bit encryption device-to-device communication.

**Over-the-air updates**
Wireless technology allows your system to securely stay up-to-date.

**Network security**
Secure HTTPS protocols and WPA2 technology.

**Eaton COE assurance**
Continuous monitoring and reporting of internet threats and vulnerabilities.
Control and efficiency, at your fingertips

Next-level convenience and control: configure zones, customize settings, and save energy from one secure mobile app.

- Easy, automatic code commissioning provides a sequence of operations that meets the strictest codes
- Adjust automatic settings, with the ability to configure each setting yourself
- View occupancy/daylight data from sensors, and implement demand response to save money

www.eaton.com/WaveLinx
WaveLinx can offer significant benefits:

- Save time reacting to your system with WaveLinx Insight Manager and our system smart tips
- Achieve more with the wireless system that has the broadest offering of indoor and outdoor controls and fixtures
- Stay secure with unparalleled 7-tier network security features

In a typical 10,000 square foot school area, the WaveLinx system offers significant benefits:

- **30%** Maintenance Savings
  
  Easily reconfigure the classroom without rewiring from a simple mobile app
  
  Wireless controls install faster for less downtime during school retrofit or construction

- **40%** Faster Install & Set-up
  
  Achieve faster certificate of occupancy by reducing installation time of the lighting and control system by 40%
  
  Easily program the luminaires to work the way the school wants rather than hardwired zones
  
  Reduce unnecessary accessories with luminaires with integrated fixtures providing daylight and occupancy detection

- **15%** Lower Installed Cost
  
  Reduce total installed cost with fewer components and less hard piped conduit
  
  Eliminate up to 60% of wire runs and 45 minutes per control zone

- **25-70%** Energy Savings
  
  Save 47% more energy on average by utilizing Networked Lighting Controls (NLCs)
  
  25-70% energy savings are possible with integrated luminaire lighting controls
  
  Simplify energy code compliance (CAT24, ASHRAE, IECC)

Education

Complete projects and open schools faster while reducing cost with the Eaton WaveLinx system, for LED lighting and control projects.

- WaveLinx mobile app used for system setup and personal control

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Wireless, code-compliant and cost-effective

Lighting
- Multiple zones
- Out of the box 75% high end trim

Occupancy
- Automatic on to 50%
- Automatic plug load control
- Vacancy option

Daylighting
- Continuous dimming to off
- Open or closed loop daylighting

Manual Controls
- Fully programmable scene or zone buttons
- Intuitive controls

Scheduling
UL924
Power Measurement
DLC NLC V2 qualified

Offices
Reduce labor, cost and installation time with WaveLinx to get low cost compliance for both retrofits and new installation.

In a typical 10,000 square foot commercial office area, the WaveLinx system offers significant benefits:

**IMPROVE Productivity & Maintenance**
Wireless controls install faster for shorter down time
Easily reconfigure the space without rewiring from a simple mobile app
Accommodate all users with configurable occupant lighting settings

**40% Faster Installation**
Achieve faster certificate of occupancy by reducing installation time of the lighting and control system by 40%
Easily program the system using the WaveLinx mobile application

**15% Lower Installed Cost**
Reduce total installed cost with fewer components and less required conduit
Eliminate up to 60% of wire runs and 45 minutes per control zone with wireless lighting controls

**up to 70% Energy Savings**
Save 47% more energy on average by utilizing Networked Lighting Controls (NLCs)
25-70% energy savings are possible with integrated luminaire lighting controls
Simplify energy code compliance (CA T24, ASHRAE, IECC)
Control devices
Precise control. Wireless communication.

Wireless Area Controller

The Wireless Area Controller (WAC-POE) is the main component of the Eaton WaveLinx Wireless Connected Lighting System. The WAC coordinates between the WaveLinx Mobile App and various WaveLinx devices to create a smart building ecosystem that provides out of the box functionality and leverages our patent pending automatic code commissioning features.

catalog number:
- WAC-120 - Wireless Area Controller with PoE injector
- WAC-POE - Wireless Area Controller without PoE injector
- WPOE-120 - PoE injector accessory

Insight Manager Pro

Enterprise | BACnet | API Integration

The Insight Manager Pro is an on-premise hardware platform hosting Lighting Xpert Insight enterprise lighting management software application. It networks up to twenty (20) Wireless Area Controllers collecting data that can be shared with third party system via BACnet and Public API (REST).

catalog number:
- ELS-IMPRO1 - Insight Manager Pro (supports 20 WACs)
  Includes: 1000 nodes (BACnet, API, AV)

Insight Manager Enterprise

Virtual Insight Manager

Enterprise | BACnet | API Integration

The Insight Manager Pro is an on-premise hardware platform hosting Lighting Xpert Insight enterprise lighting management software application. They network up to five-hundred (500) Wireless Area Controllers collecting data that can be shared with third party system via BACnet and Public API (REST).

catalog number:
- ELS-IMENT1 - Insight Manager Enterprise (supports 500 WACs)
  Includes: 1000 nodes (BACnet, API, AV)
- ELS-IMVRT1 - Insight Manager Virtual Enterprise (supports 500 WACs)
  Includes: 1000 nodes (BACnet, API, AV)
Lighting Xpert Insight Software
Enterprise | IoT | BACnet | API Integration
The Lighting Xpert Insight management software application helps real-estate professionals take full advantage of IoT by connecting WaveLinx with other building systems using BACnet and Public API (REST). Xpert Insight also includes alarms with smart tips, system events, demand response, platform flexibility and future proofing.
catalog number:
ELS-LXISLI - LXI Software license for interfaces
    (included in ELS-IMPRD1, ELS-IMENT1, ELS-VRT1)
    Includes: 1000 nodes (BACnet, API, AV)
ELS-BAC**K - BACnet License adder
    **defines number of additional nodes
    See product spec sheets for ordering information
ELS-API**K - API License adder
    **defines number of additional nodes
    See product spec sheets for ordering information

Wireless Dimming Switchpack
Plug Load | 0-10V | Wireless
The wireless dimming switchpack with 0-10V (WSP-MV-010) offers 120-277VAC 20amp zero crossing relay control and continuous 0-10V dimming control of LED and non LED loads. The wireless relay switchpack with 0-10V control also supports 20amp plug load control.
catalog number:
WSP-MV-010 - Relay dimming switchpack

Wireless 347V Dimming Switchpack
0-10V | 120-347VAC | Wireless
The 347V dimming switchpack (WSP-CA-010) offers 120-347VAC 20amp relay control and continuous 1-10V dimming control of LED and non LED loads.
catalog number:
WSP-CA-010 - 347V Relay dimming switchpack
Integrated Sensor
Sensing | Daylight | Wireless
The integrated sensor combines control within the light fixtures to reduce installation and design time; while meeting energy codes. With the integrated sensor the lighting design is the control design.
catalog number:
SWPD1 - Integrated sensor
See luminaire spec sheets for ordering information

Wireless Tilemount Daylight Sensor
Daylight | Dimming | Downlights | Wireless
The Tilemount daylight sensor provides daylight dimming and control for connected downlight luminaires or other luminaires that do not support the WaveLinx Integrated Sensor. The Tilemount daylight sensor provides 0-10V dimming control of LED and non LED loads for 120-277V 3amps luminaires.
catalog number:
TMSVPD1 - Tilemount daylight sensor

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Wireless Ceiling Sensor
Sensing | Daylight | Wireless | Battery
The room based wireless sensor offers PIR occupancy and daylight sensing of up to 1500 square feet. The room based sensor is battery powered and is one of the smallest ceiling mounted room based wireless occupancy and daylight sensors on the market. The sensor in combination with the WaveLinx mobile application allows you to gain considerable energy savings from occupancy sensing-based control of lighting and plug loads.
catalog number:
CWPD-1500 - Ceiling sensor

Wireless Outdoor Lighting Control Module
Scheduling | Dimming | Astronomic | Wireless | Zones
The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week. Allows to create multiple control zones.
catalog number:
WOLC-7P-10A - Outdoor lighting control module
Wireless Wallstation

Manual | Scenes | Zones | Wireless

The wireless wallstation is available in several small and large button configurations as well as various colors. These wallstations are mains powered and provide wireless control of the lighting in each area. The wireless wallstation mounts in a standard wallbox and includes a decorator style color matching wallplate. Each wallstation is fully configurable to provide local and multi-level control in each area.

catalog number:

- W1L -* - 1 Large button
- W1L-RL -* - 1 Large button with raise/lower
- W2L -* - 2 Large button
- W2L-RL -* - 2 Large button with raise/lower
- W2S -* - 2 Small button
- W2S-RL -* - 2 Small button with raise/lower

Wireless Receptacle

Plug Load | Wireless

The wireless receptacle 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 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.

catalog number:

- WR-15 - 15A wireless receptacle
- WR-20 - 20A wireless receptacle

- W3L -* - 3 Large button
- W4S -* - 4 Small button
- W4S-RL -* - 4 Small button with raise/lower
- W5S -* - 5 Small button
- W6S -* - 6 Small button
- W6S -* - 6 Small button
Eaton’s WaveLinx technology offers an intelligent, simple, easily control of various luminaires to meet application requirements:

- Supports integrated or tile mount connected sensors for occupancy and daylighting
- Designed and tested by Eaton to provide guaranteed compatibility
- Eliminate the worry of controls and luminaire integration

Architectural lighting

**Integrated sensors**

Sensing | Daylighting | Individual | Grouping

Corelite

**Divide**
Suspended WaveStream LED

Corelite

**Iridium**
Linear suspended WaveStream LED

Corelite

**Jaylum**
Suspended LED

Corelite

**Bridge**
Architectural recessed WaveStream LED

www.eaton.com/WaveLinx
**Ambient lighting**

*Integrated sensors*
- Sensing | Daylighting | Individual | Grouping

**Metalux**
- **WSL**
  - Linear surface / suspended series
  - WaveStream LED

**SkyRidge**
- Recessed ambient
- WaveStream LED

**Encounter**
- Recessed ambient
- WaveStream LED

**Cruze & Cruze Retrofit Kit**
- LED recessed ambient

**FR**
- LED recessed ambient

For a complete list of compatible products, see: [www.eaton.com/WaveLinx](http://www.eaton.com/WaveLinx)

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**Recessed lighting**

*Tile Mount Sensing | Direct Driver Control*

**Halo**
- **PD6**
  - LED recessed downlight (wireless control)

**RL56**
- LED recessed downlight (direct wireless)

**Portfolio**
- **LDSQA4A**
  - LED square adjustable accent/slope (wireless control)

**LD4A and LDSQ4A**
- Round and square recessed downlight (wireless control)

www.eaton.com/WaveLinx
Outdoor lighting

Scheduling | Dimming | Astronomic | Wireless | Zones

LEDs can be fitted with smart and connected controls, allowing lighting infrastructure to be easily configured to operate based on astronomic or time schedules, for all or zones of outdoor luminaires.

Talon LED
Area and site

Ventus LED
Area and site

Galleon LED
Area and site

Prevail
Area and site

Caretaker LED
Area and site

Arbor LED
Area and site

www.eaton.com/WaveLinx
Verdeon
Area and site

Galleon LED
Wall

Verdeon M
Area and site

Impact Elite Cylinder LED
Wall

Navion LED
Area and site

Night Falcon
Floodlight

For a complete list of compatible products, see:
www.eaton.com/WaveLinx
Get started.

Eliminate the cost and complexity of typical addressable control system commissioning and benefit from a flexible reconfigurable wireless topology with WaveLinx.
What is Connected Lighting?

* Eaton’s portfolio of connected lighting solutions leverages the real-estate of the physical light fixture to increase building, business and community operating efficiency through controls and data. With connected lighting solutions, we go beyond controlling light to solve higher complexity problems enabled by sensing and communication capabilities within the light fixture itself.

With innovation you can rely on, and connections you can build on; that’s how Eaton makes connections work.
Lighting Product Lines
Halo
Halo Commercial
Portfolio
Iris
RSA
Metalux
Corelite
Neo-Ray
Fail-Safe
MWS
Ametrix
Shaper
io
Lumark
McGraw-Edison
Invue
Ephesus
Lumière
Streetworks
AtLite
Sure-Lites

Controls Product Lines
Greengate
iLumin
Zero 88
Fifth Light Technology
iLight (International Only)

Connected Lighting Systems
LumaWatt Pro
WaveLinx
Distributed Low-Voltage Power
ConnectWorks
Halo Home