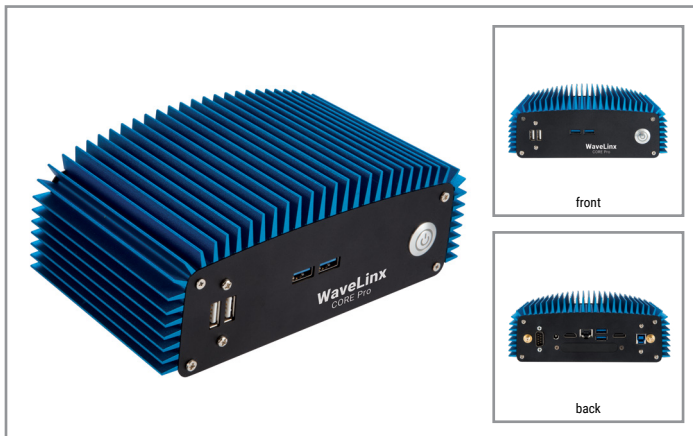


Project		Catalog #		Type	
Prepared by		Notes		Date	



WaveLinX

CORE Pro

Hardware platform hosting
CORE Applications

Typical Applications

Office • Education • Healthcare • Industrial

Interactive Menu

- Order Information [page 2](#)
- Additional Resources [page 3](#)
- Connected Systems [page 4](#)
- Product Warranty



IEC 62443-2



Cybersecurity for
Network Connectable
Products



- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU

Product Features



Web Based



CORE Admin



CORE Lighting



CORE Insights



CORE Exchange

Compatibility



Overview

The WaveLinX CORE Pro is an on-premises hardware platform that hosts the WaveLinX Smart Spaces Platform software applications. The WaveLinX CORE Applications provide enterprise-level functionality for the WaveLinX PRO system users. It captures critical system data such as devices status, devices present value, areas power consumption from networked of up to 20 WaveLinX Area Controllers for improved maintenance and operational savings. The collected data can be shared with third party systems via BACnet IP and Public API (REST). The application also offers user management, security management, alarms and events management and system backup functions.

Product Features & Benefits

- **Manage a system with up to 20 WaveLinX Area Controllers / Gateways** – Most cost effective on-premises lighting system supervisory solution for small to medium building that supports up to 20 gateways (up to 20 wireless and 2 wired).
- **Smart Applications** – Host WaveLinX CORE Applications, Admin and Lighting, that provide enterprise-level functionality for WaveLinX PRO system users to improve operational savings and maintenance. The applications offers device level management, building level management, user management, security management, alarms and events management and overall system management such as system backup/upgrades.
- **IEC-62443-2 and UL 2900-1 Certified** – Secured data exchange with regards to your spaces (example: energy usage, occupancy status, device status) with third party systems via BACnet/IP and Public API (REST).
- **Multi-Area Switches and occupancy sharing** - Configured in CORE to allow wallstations, CCIs and Occupancy to share data across and between WACs Simple and powerful CORE UI enables seamless cross - WAC configurations.
- Options to meet Trade Agreements Act of 1979 (TAA) requirements

Order Information

The WaveLinx CORE (Pro, Enterprise, Virtual) platforms are preloaded with CORE Admin and Lighting Apps. The WaveLinx CORE is shipped with a base software license which enables the Lighting application for up to 250 devices. After 250 devices, the customer should purchase WaveLinx CORE Lighting App license adders. WaveLinx CORE Insights Apps, BACnet/IP, API and OpenADR require a dedicated software license. Customers should purchase the appropriate WaveLinx CORE optional software licenses for any additional features.



Catalog Number

Domestic Preferences ⁽¹⁾	Catalog Number	Description
[Blank] = Standard TAA = Trade Agreements Act	TRX-TCPRO2	WaveLinx CORE Pro (shipped with WaveLinx Lighting and Admin Apps)

Notes

Product complies with the Trade Agreements Act of 1979 (TAA), which requires that products be substantially transformed in a designated (TAA-compliant) country. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Optional WaveLinx CORE Software Licenses



Catalog Number

Catalog Number

Catalog Number

Catalog Number

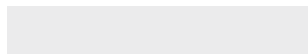
Catalog Number	Description
TRX-LGT250	WaveLinx CORE Lighting license adder for additional 250 devices
TRX-API	API license for unlimited devices
TRX-BACNET	BACnet license for unlimited devices
TRX-OPNADR	OpenADR Interface license for unlimited devices per site

Notes

Please refer to the respective datasheets to learn about the other features.

WaveLinx CORE Commissioning Services

The CORE Lighting application includes graphical floor plan and energy dashboard software features. Services to configure these items MUST BE INCLUDED in WaveLinx CORE in lots of 250.



Catalog Number

Catalog Number	Description
TRX-CONFIG	Configuration Services - for WaveLinx CORE Energy and Graphical Floorplan, for 250 devices ¹

Notes

1. Device placement only available for PRO (wireless), CAT (wired) and WaveLinx Panel devices.

A device is an input/output wireless/wired device that is connected to the controller.

PRO Wireless, CAT wired and Panel Devices

Each PRO, CAT and Panel device listed counts as one: (integrated sensors, ceiling sensors, outdoor sensors, wall stations, switch packs, receptacles, wireless drivers).

Note: WaveLinx PRO Touchscreen and WaveLinx Area Hub are not counted as a device.

WaveLinx Wired

DAC & Field Relay Devices: Each device counts as one.

SCMH: 12 devices (A single SCMH counts as 12 devices)

SCMR: 0 devices (see below)

Note: As WaveLinx Wired does not support device level monitoring, the device count is limited to output devices only listed above, i.e. wallstations and sensors are not included in the device count. SCMR does not contribute to device count.

Product Specifications

Key Features

- **Rugged and reliable hardware** - WaveLinx CORE Pro is a compact fanless computing device with a rugged enclosure designed for industrial applications. The rugged device can be placed in spaces where silent operation is needed or remote locations where fan failures would go unnoticed and result in system failure.
- **Performance at the edge** - The WaveLinx CORE Pro is based on the Intel® Core™ i5 processor with Intel® Turbo Boost Technology 2.0 which gives extra GHz on demand to maximize performance on processor-intensive tasks. The hardware performance enables local management of a distributed connected lighting system composed of 20 WaveLinx Area Controllers.
- **IEC-62443-1 and UL2900-1 Certified** - Secured data exchange with regards to your spaces (example: energy usage, occupancy status, device status) with third party systems via BACnet/IP and Public API (REST).
- Multi-Area Switches and occupancy sharing configured in CORE, allows data sharing and control between WACs via cross-WAC communications.

System Performance

Maximum number of gateways/area controllers: 20

Maximum number of nodes supported: 3,000 devices wired or wireless

Maximum number of BACnet objects: 10,000

Mechanical

Size: 7.5" x 4" x 3" (190mm x 102mm x 76mm)

Weight: 3.4 lbs. (1.5 kg)

Environment:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage temperature:** -4°F to 140°F (-20°C to 60°C)
- For indoor use only

Mounting: Mounting plate provided with the unit

Electrical

Power Requirements:

- 19VDC
- 65W AC-DC power adapter with detachable power

Hardware Specifications

Processor: 13th Gen Intel® Core™ i5 (1.3GHz to 3.8GHz Turbo, 12MB Intel® Smart Cache)

Memory: 32GB

Peripheral Connectivity:

- One 2.5Gb LAN (i226V) (back)
- 3x USB 3.2 Gen2 Type-A (two front, one back)
- 1x USB 2.0 Type-A (back panel)

Model: NUC13ANFi5

Product Safety:

- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

Environmental Regulations:

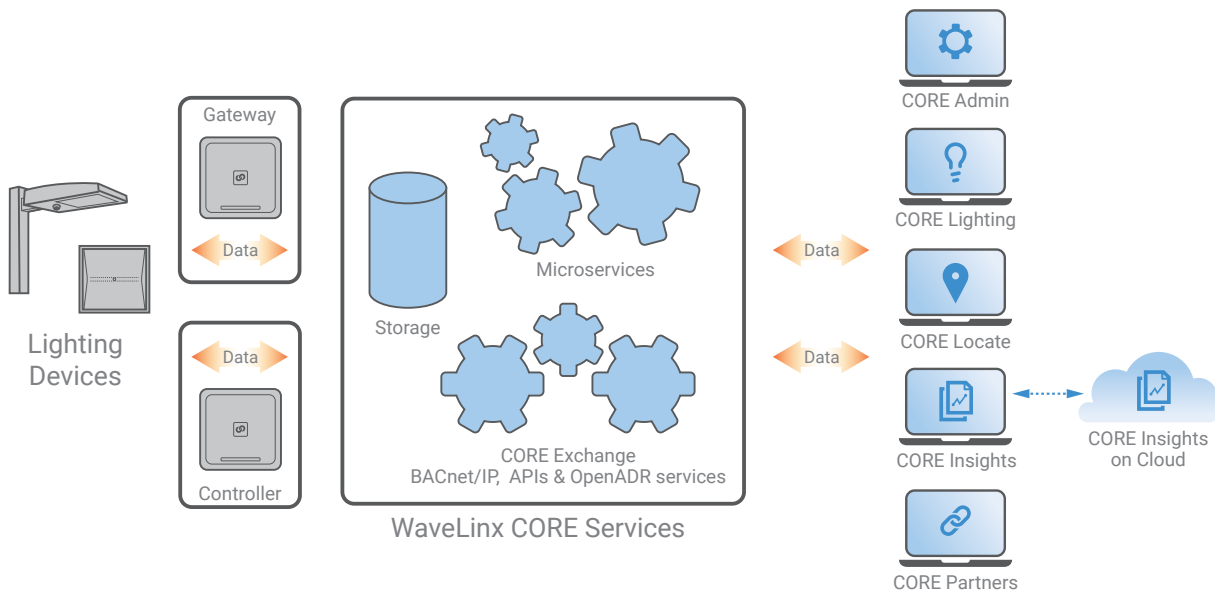
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU

Software Specifications

Refer to WaveLinx CORE spec sheet to learn about CORE applications

Warranty

Three year warranty



Sample System Topology:


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

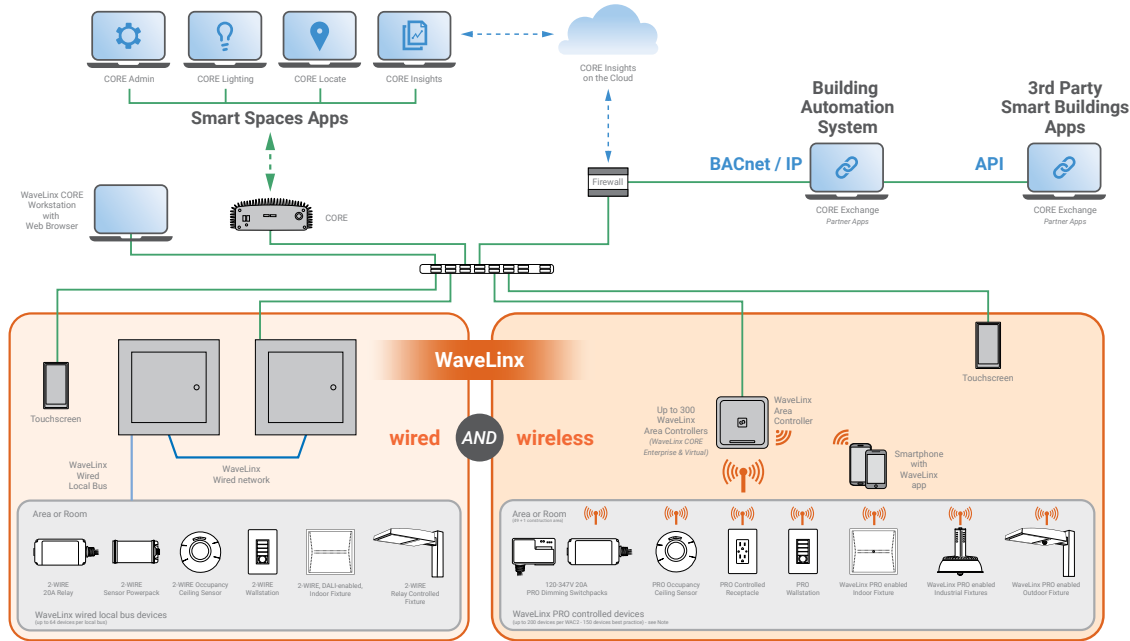
The **WaveLinX PRO wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinX Area Controller (WAC) is required for power and data access to the building lighting network.

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 PRO Network and IT Guidance Technical Guide](#)



Note: Performance based on current generation WaveLinX Area Controller (WAC2)

	WaveLinX wired	WaveLinX PRO/CAT/Panel
WaveLinX CORE		
Connects to WaveLinX CORE (Pro, Enterprise, Virtual)	●	●
# of WAC or EG2-S-NA / # of devices per WaveLinX CORE Pro	2 / 3000	20 / 3000
# of WAC or EG2-S-NA / # of devices per WaveLinX CORE Enterprise	10 / 32,500*	300 / 32,500*
# of WAC or EG2-S-NA / # of devices per WaveLinX CORE Virtual Enterprise	10 / 32,500*	300 / 32,500*
Connecting device	EG2-S-NA	WAC2-POE
CORE Lighting		
Alarms	○	●
Events		●
Operate (floorplan control)	●	●
Operate - area control	●	●
Operate - zone control	●	●
Operate - device control		●
Scheduling	○	●
Energy Dashboard		●
Occupancy Dashboard		●
CORE Exchange		
BACnet/IP	○	10,000 objects with WaveLinX CORE Pro up to 30,000 with Enterprise/Virtual
Public (REST) API	○	●
OpenADR		●
Demand Response		●
CORE Admin		
Manage Users	●	●
Manage roles	●	●
Manage clients	●	●
Manage licenses	●	●
System settings (backup/restore, network etc)	●	●
CORE Insights		
Occupancy Trends and Comparison		●
Average Occupancy		●
Occupancy on Floor Plan		●
Generate and Export Reports to pdf		●
Hierarchical Navigation		●
Quick Search		●
Department Filter		●
Historical View		●
Popular Spaces		●

* For larger number of gateways and devices, please contact Cooper Lighting Solutions Sales representatives. Recommend designing the system at 70-80% of maximum capacity. Specifications based on WAC2-POE. The number of gateways and devices mentioned above are the total for a single system or the combination (Wired + Wireless) that can be used with a server.
● = All features ○ = Subset of features

Control Systems

- WaveLinX
- Greengate