

Project		Catalog #		Type	
Prepared by		Notes		Date	



Trellix

Trellix Core Pro

Hardware platform hosting
Trellix Applications

Typical Applications

Office • Education • Healthcare • Industrial

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Product Certification



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



Trellix
Lighting



Trellix
Exchange



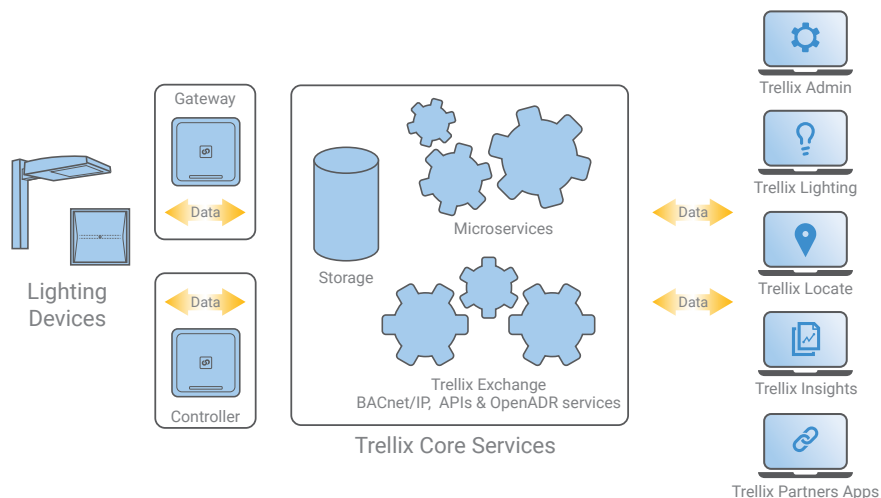
Trellix
Admin



Trellix
Insights

Top Product Features

- **Manage a system with up to 20 WaveLinx Pro Wireless Area Controllers / Gateways** – Most cost effective on-premise 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 Trellix Smart 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).



Order Information

The Trellix Core (Pro, Enterprise, Virtual) platforms are preloaded with Trellix Admin and Lighting. The Trellix 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 Trellix Lighting license adders. Trellix Insights, BACnet/IP, API and OpenADR require a dedicate software license. Customers should purchase the appropriate software license adders for any additional features.

Catalog Number

Catalog Number	Description
TRX-TCPRO2	Trellix Core pro (shipped with Trellix Lighting and Admin)

Optional Trellix Software Licenses

Catalog Number

Catalog Number

Catalog Number

Catalog Number

Catalog Number	Description
TRX-LGT250	Trellix 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.

Trellix Commissioning Services

The Trellix Lighting application includes graphical floor plan and energy dashboard. Services to configure these items MUST BE INCLUDED in Trellix Core and Trellix Basic License Addition 250 options for the number of nodes indicated with those products.

Catalog Number

Catalog Number	Description
TRX-CONFIG	Trellix Energy and Graphical Floorplan Setup Services for 250 devices*

Notes

- Devices placement only available for wireless devices

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

Wireless

All Wireless Devices (integrated sensors, ceiling sensors, outdoor sensors, wall stations, switch packs, receptacles, wireless drivers). Each device counts as one.

Notes: WaveLinux Pro Touchscreen is not counted as a device

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)

Notes: As Trellix 9.0 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. We are not counting the SCMR in the device count.

Product Specifications

Key Features

- **Rugged and reliable hardware** - Trellix 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 Trellix Core Pro is based on the 7th generation 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 wireless 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).

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: Intel® Core™ i5-7300U vPro Processor (2.6 GHz with 3.5GHz Turbo, Dual Core, Hyper-thread, 3MB Smart Cache)

Memory: 32GB

Peripheral Connectivity:

One Gigabit LAN w/AMT support (back)

- Four USB 3.0 ports (two back panel ports and two front ports)
- Two USB 2.0 2.0 ports (front)

Model: NUC7i5DNFE

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 Trellix spec sheet to learn about Trellix applications

Warranty

- Three year warranty

Discontinued
06-02-2023

Sample System Topology:

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

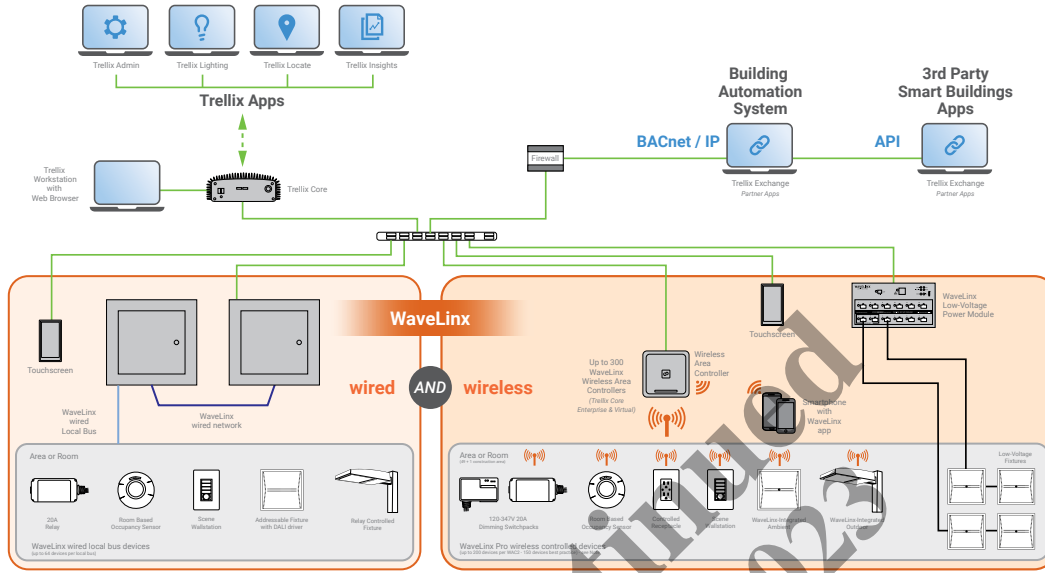
The **WaveLinX Pro wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard.

A PoE LAN connection for each Wireless 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 EG2-S-NA module, mounted within the WaveLinX Wired Area Controller. Each WaveLinX wired area controller communicates on the WaveLinX wired network.

WaveLinX Pro Wireless Area Controllers (WAC) and WaveLinX Ethernet Gateways (EG2-S-NA) communicate with Trellix 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.



		WaveLinX wired	WaveLinX Pro wireless
Trellix	Connects to Trellix Core (Pro, Enterprise, Virtual)	●	●
	# of WAC or EG2-S-NA / # of devices per Trellix Core Pro	2 / 3000	20 / 3000
	# of WAC or EG2-S-NA / # of devices per Trellix Core Enterprise	10 / 32,500*	300 / 32,500*
	# of WAC or EG2-S-NA / # of devices per Trellix Core Virtual Enterprise	10 / 32,500*	300 / 32,500*
Trellix Lighting	Connecting device	EG2-S-NA	WAC2-POE
	Alarms	○	●
	Events	●	●
	Operate (floorplan control)	●	●
	Operate - area control	●	●
	Operate - zone control	●	●
	Operate - device control	●	●
	Scheduling	○	●
	Energy Dashboard	●	●
Trellix Exchange	Occupancy Dashboard	●	●
	BACnet/IP	○	10,000 objects with Trellix Pro up to 30,000 with Enterprise/Virtual
	Public (REST) API	○	●
	OpenADR	●	●
Trellix Admin	Demand Response	●	●
	Manage Users	●	●
	Manage roles	●	●
	Manage clients	●	●
	Manage licenses	●	●
Trellix Insights	System settings (backup/restore, network etc)	●	●
	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

- Trellix
- WaveLinX Pro wireless
- WaveLinX wired
- VividTune