

Project		Catalog #		Type	
Prepared by		Notes		Date	



Trellix

Trellix Core Pro

On-premises hardware platform hosting
Trellix Admin and Trellix Lighting

Typical Applications

Office • Education • Healthcare • Industrial

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Product Certification



- IEC 60950-1
- UL 60950-1
- EN 60950-1

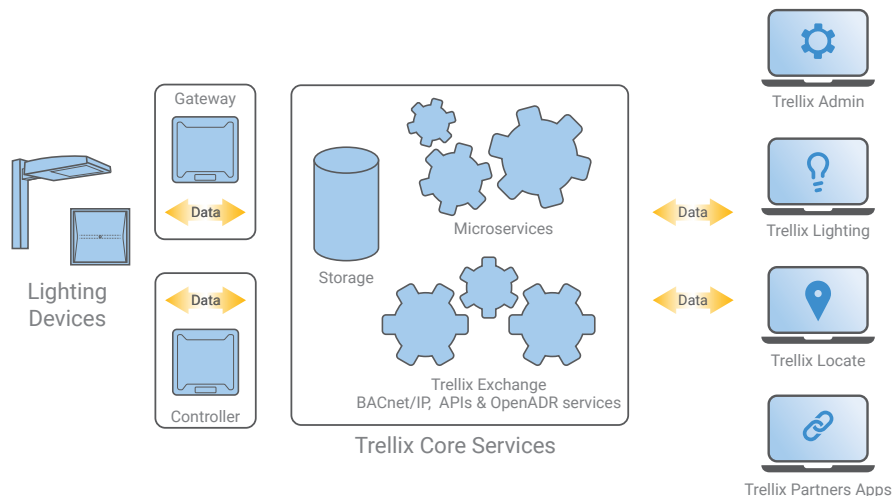
- CAN/CSA-C22.2 No. 60950-1
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU

Product Features



Top Product Features

- **Manage a system with up to 20 WaveLinx Area Controllers / Gateways** – Most cost effective on-premise lighting system supervisory solution for small to medium building with up to 20 WaveLinx area controllers/gateways.
- **Smart Applications** – Host Trellix Smart Applications, Admin and Lighting, that provide enterprise-level functionality for Wavelinx 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.
- **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).



Order Information

Trellix Core models TRX-TCPRO2, TRX-TCENT2 and TRX-TCVRT2 come with a base Trellix Core Admin/Lighting software license. The base Trellix Core software license includes all features offered by the Trellix Admin/Lighting, i.e. Alarms and Events, Operate, BACnet/IP interface, Public API with the exception of OpenADR (sold separately).

Catalog Number	Catalog Number	Catalog Number	Catalog Number
Catalog Number	Description		
TRX-TCPRO2	The Trellix Core Pro will be shipped with the Trellix Core Admin/Lighting Software License for Interfaces which includes Alarms and Events, Operate, BACnet/IP interface and Public API for 250 nodes		
TRX-API250	API Software License option for an additional 250 nodes		
TRX-BAC250	BACnet Software License option for an additional 250 nodes		
TRX-OPNADR	OpenADR Interface License for Trellix Core (Pro/Enterprise/Virtual) - unlimited nodes per site.		
Notes			
<ol style="list-style-type: none"> 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. A node is a device connected to an area controller such as integrated sensors, ceiling sensors, wallstations, switchpacks, field relays, reverse phase dimmers and forward phase dimmers. Trellix Locate application is not available with Trellix Core Pro. Trellix OpenADR works with the WaveLinx Wireless system only. Future releases of Trellix OpenADR will include control over the WaveLinx Wired system. 			

Commissioning Services

The services to configure Trellix must be included.

Catalog Number	Description
TRX-CONFIG	Trellix Energy and Graphical Floorplan Setup Services for 250 nodes
Notes	
*Devices placement only available for wireless devices	

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.
- 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: 2,000 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 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

Sample System Topology:


This diagram shows the main components of the WaveLinx Wireless and Wired Connected Lighting system.

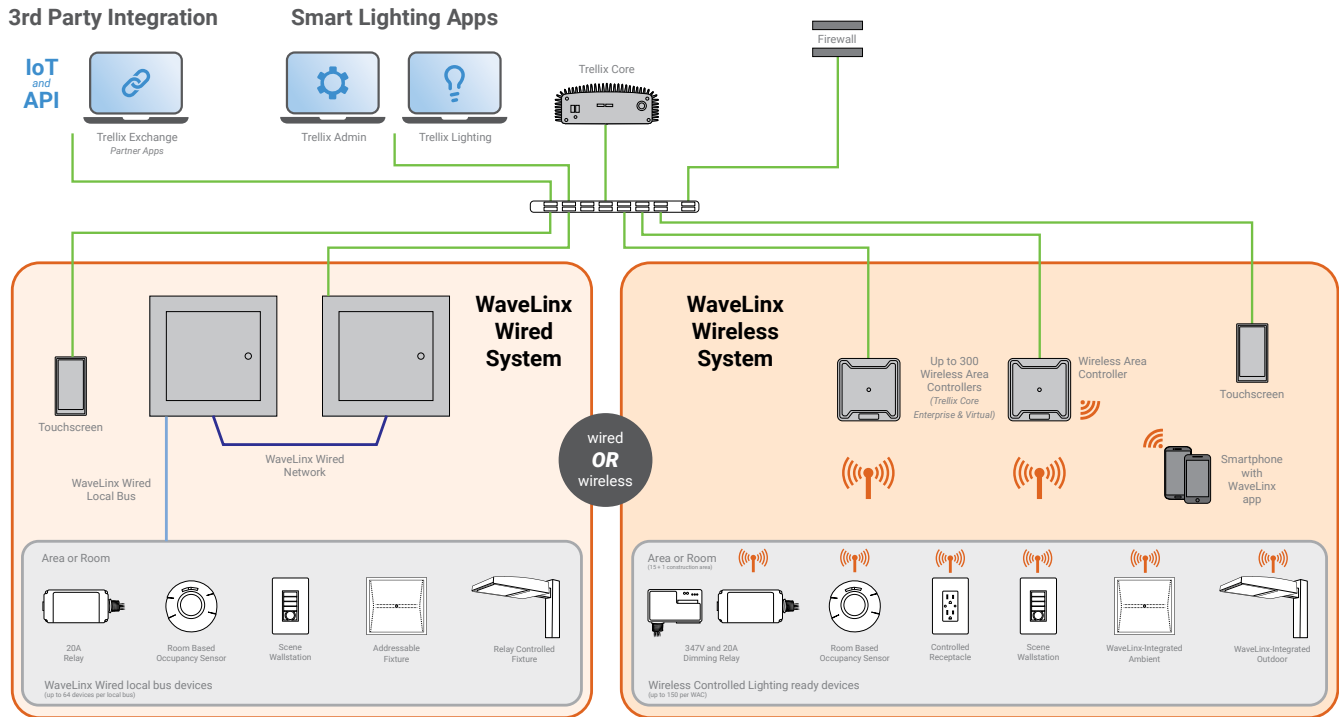
The **WaveLinx wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each Wireless Area Controller (WAC) is required for power and data access to the building lighting network.

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 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 Trellix over the Ethernet network.

Please refer to the WaveLinx 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**



		WaveLinx Wired	WaveLinx Wireless
Trellix	Connects to Trellix Core (Pro, Enterprise, Virtual)	●	●
	Trellix Core # of gateways/devices	20 / 2000	20 / 2000
	Trellix Enterprise # of gateways/devices	300 / 45,000*	300 / 45,000*
	Trellix Virtual Enterprise # of gateways/devices	300 / 45,000*	300 / 45,000*
	Connecting device	EG2/EG2-NA	WAC-POE
Trellix Lighting	Alarms	○	●
	Events	●	●
	Operate (floorplan control)	●	●
	Operate - area control	●	●
	Operate - zone control	●	●
	Operate - device control	●	●
	Scheduling	○	●
	Energy Dashboard		●
Trellix Exchange	BACnet/IP	○	●
	Public (REST) API	○	●
	OpenADR		●
Trellix Admin	Manage Users	●	●
	Manage roles	●	●
	Manage clients	●	●
	Manage licenses	●	●
	System settings (backup/restore, network etc)	●	●

* For larger number of gateways and devices, please contact Cooper Lighting Solutions Sales representatives. Recommend designing the system at 70-80% of maximum capacity.

● = All features ○ = Subset of features

 **Control Systems**

- Trellix
- WaveLinx Wireless
- WaveLinx Wired
- VividTune