Project		Catalog #		Type	
Prepared by		Notes		Date	

Trellix

Trellix Core Enterprise

On-premises hardware platform hosting Trellix Admin, Trellix Lighting and Trellix Locate

Typical Applications
Office • Education • Healthcare • Industrial

Interactive Menu

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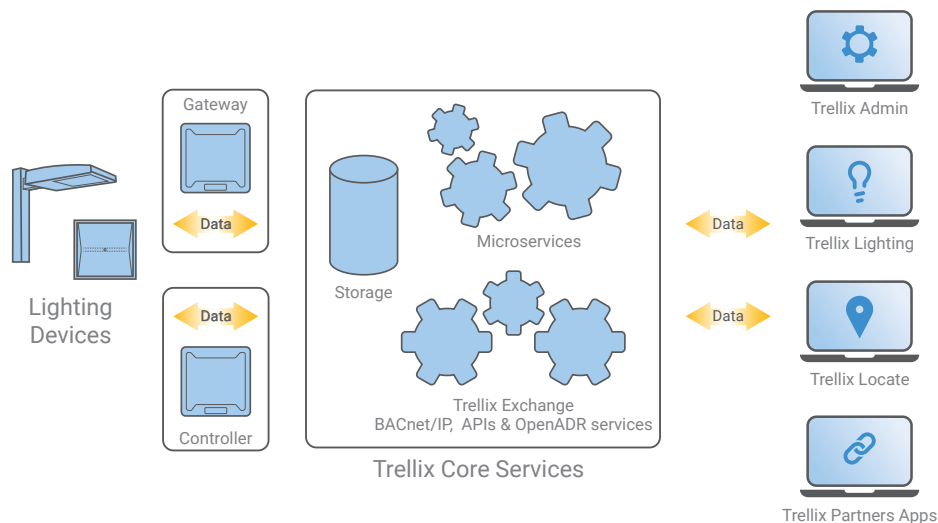- Product Warranty

Product Certification

- Ref HPE ProLiant DL360 Gen 10 Server Datasheet1

Product Features

| Trellix Lighting | Trellix Exchange | Trellix Admin | Trellix Locate |

Top Product Features

- Quickly establish and future-proof user's IoT strategy by enabling secure data flow between their connected lighting control system and the other building's sub-systems.
- Designed for Wavelinx systems composed of up to 300 networked connected lighting systems.
- Hosts the Trellix Applications that provide enterprise-level functionality for the Wavelinx system users to improve operational savings and maintenance. The applications include Trellix Admin, Trellix Lighting and Trellix Locate. Please refer to the applications datasheets to learn more about each application.
- Stores system data such as devices status, devices present value, areas power consumption from the connected devices and shares it with third party systems via BACnet IP and Public API (REST).

Lighting Devices · Gateway · Data · Controller · Data · Storage · Microservices · Trellix Exchange BACnet/IP, APIs & OpenADR services · Trellix Core Services · Data · Trellix Admin · Trellix Lighting · Trellix Locate · Trellix Partners Apps

COOPER
Lighting Solutions

Order Information

Trellix Core models TRX-TCPRO2, TRX-TCENT2 and TRX-TCVRT2 come with a base Trellix Core Admin/Lighting software license.

The base software license includes all features offered by Trellix Admin/Lighting/Exchange up to 250 nodes with the exception of OpenADR and Occupancy Dashboard.

Catalog Number	Catalog Number	Catalog Number	Catalog Number

Catalog Number	Description
TRX-TCENT2	Trellix Core Enterprise with base software license for up to 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

1. 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.
2. Trellix Locate application is not included in the Trellix Core Base License. Trellix Locate requires a dedicated software license.
3. 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.
4. 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

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

- **Compact form factor server with high performance -** Powered by HPE 1P 1U rack server, the Trellix Core Enterprise provides the right balance of performance, expandability, reliability and manageability for a distributed lighting control system.
- **Redundant power supply capability -** Keeps your business running and provides data protection and accessibility even in the event of a power supply failure.
- **Smart Array technology by HPE -** Provides businesses with protection for critical data through RAID mirroring and striping capability and captures and holds data indefinitely in the event of a power loss, equipment failure, or human error.

System Performance

Maximum number of area controllers: 300
Maximum number of nodes supported: 45,000 devices
Maximum number of BACnet objects: 10,000
Note: Recommend designing the system at 70-80% of maximum performance

Mechanical

Size: 1.69" H x 17.11" D x 27.83" L (4.29cm x 43.46cm x 70.69cm)
Weight: 17.37lb (7.88 kg)
Environment:
- **Operating temperature:** 50°F to 95°F (10°C to 35°C)
- **Non-operating temperature:** 50°F to 95°F (-30°C to 65°C)
- **Relative humidity operating:** 8% to 90%
- **Relative humidity non-operating:** 5% to 95%
- **Storage temperature:** -4°F to 140°F (-20°C to 60°C)
- For indoor use only
Mounting: Mounting plate provided with the unit

Electrical

Input Requirements:
- Range input voltage: 100 to 240 VAC
- Rated input current: 5.5A max (at 100 VAC)
- Rated input frequency: 50 to 60 Hz
Power supply type: (1) 290W non-hot plug power supply
Power supply output: Ref HPE ProLiant DL360 Gen 10 Server Datasheet1

Hardware Specifications

Processor: Intel® Intel® Xeon® E3-1240 v5 (4 core, 3.5 GHz, 8MB, 80W) NUC7i5DNFE
Number of processors: 1
Processor core: 4
Processor cache: 8 MB SmartCache
Processor speed:
- 3.5 GHz
- Storage Controller
- (1) Dynamic Smart Array B140i
- Expansion Slots
- (2) PCIe
Form factor: 1U
Form factor chassis: Rack
Memory: 48GB DRAM
Memory slots: 4 DIMM slots
Drive: 3.5' SATA-2 5000 GB
System fan features: Non-hot plug non redundant
Graphic card: NVIDIA K2200
Network controller: 1 GB 332i Ethernet Adapter 2 ports per controller
Manufacturer: HPE
Model: HPE ProLiant DL360 Gen 10 Server

Software Specifications

Refer to Trellix spec sheet to learn about Trellix applications

Warranty

One year warranty

Sample System Topology:

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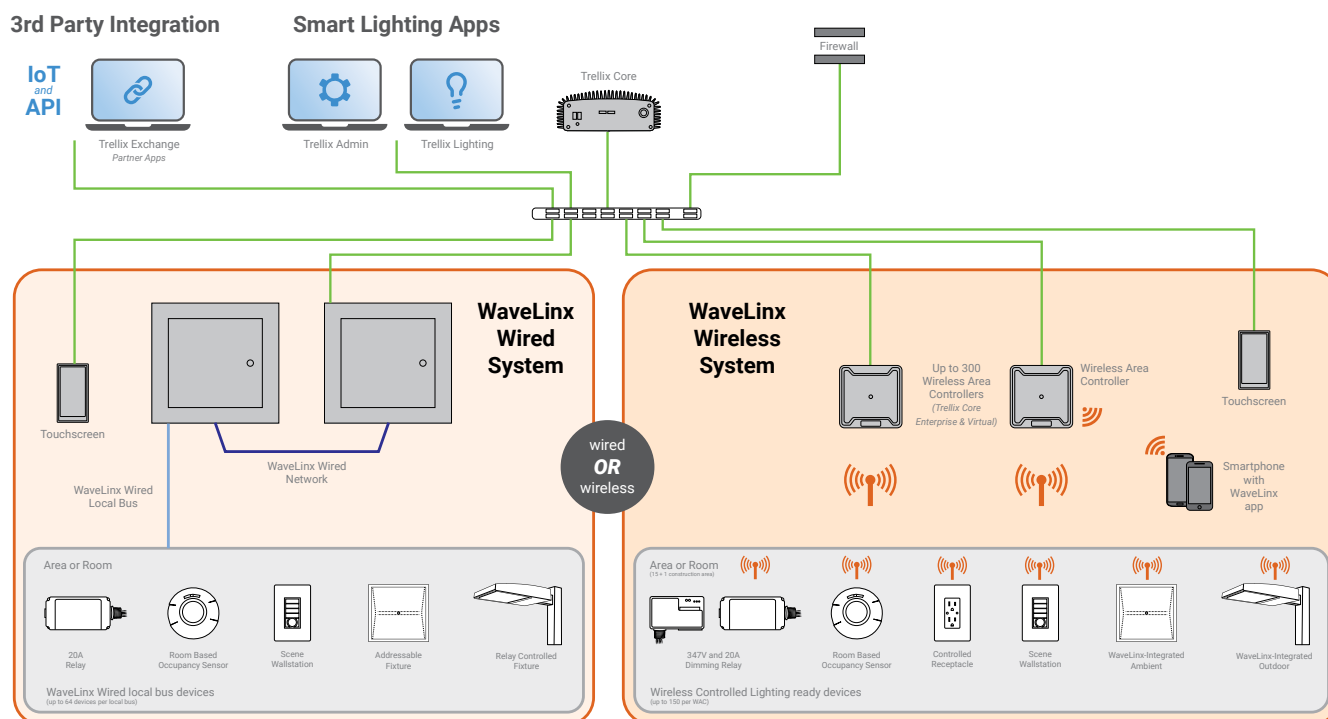
The **WaveLinx wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each Wireless Area Controller (WAC) is required for power and data access to the building lighting network.

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		●
	Occupancy 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