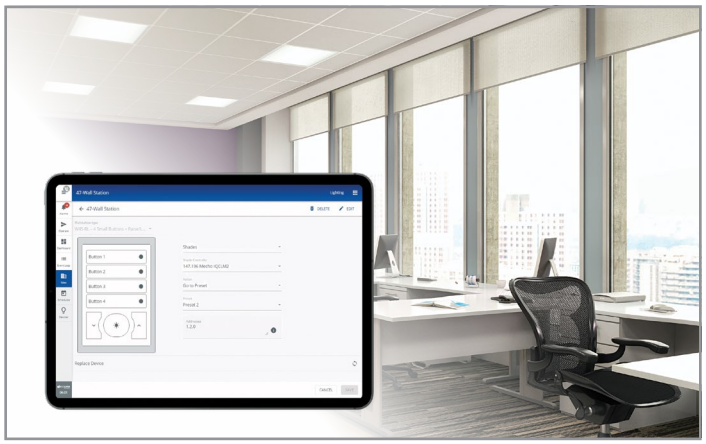
Project		Catalog #		Type	
Prepared by		Notes		Date	



WaveLinx

CORE - Mechoshades Interface

User interface used to configure and send commands from any any WaveLinx PRO Wallstation to Mechoshade Control System

Typical Applications
Office • Education • Healthcare • Industrial

Interactive Menu

Product Features

Web Based
CORE Exchange
CORE version 12
Shade Control

Compatibility

WaveLinx CORE
WaveLinx PRO

Overview

The CORE Mechoshades Interface allows specifiers to achieve a consistent design aesthetic within the space by using the WaveLinx PRO wallstations to control both shades managed by Mechoshades system and lights managed by WaveLinx system.

Product Features & Benefits

- **Consistent look and feel** – Utilize the WaveLinx PRO Wallstation / keypad to control the shades controlled by Mechoshades' MechoNet based controllers (IQ/shades).
- **Comprehensive set of commands** – Allow users to use the WaveLinx PRO Wallstation to raise, lower, stop shades as well as automatically set the shades to a preset level.
- **Intuitive user interface** – Use WaveLinx CORE's intuitive Shades configuration user interface to connect to Mechoshades' controllers MechoNet Network Interface (MNI) and map addressing of shades.

Order Information

The CORE Shade Interface software license is required when integrating the WaveLinx PRO system with MechoSystems shade controllers.

Catalog Number

Catalog Number	Description
TRX-SHADES	WaveLinx CORE Shades Interface
Note **Shade configuration requires separate commissioning services. Contact Cooper Lighting Solutions for the pricing of the shade license and associated commissioning services.**	

Required Accessory

Cooper Lighting's EIM required to convert commands sent via IP to serial.

Catalog Number

Catalog Number	Description
EIM	Ethernet Interface Module
Note One EIM is required for each MechoSystems controller. Typical installations require one EIM device per floor. See MechoSystems Shade Integration Application Note for additional details.	

Product Specifications

The CORE Mechoshade Interface allows specifiers to use the WaveLinx PRO Wallstations to control both lights and shades and achieve a consistent look and feel within the space using the CORE Shades Interface.

Network Requirements

- The IP network shall allow HTTP data exchange between the WaveLinx CORE and the EIM.
- EIM converts the IP command sent by CORE into serial commands sent to the Mechoshades controller with MNI interface (example: IQ/MLC2)

Performance Specifications

- Number of the MechoNet Network Interfaces supported: Unlimited

Supported Commands

- MechoNet: Up, Down, Stop, Go to Preset
  (Preset 1, Preset 2, Preset 3. Presets configurable by MechoSystems)
- Commands not supported: Tilt, Position

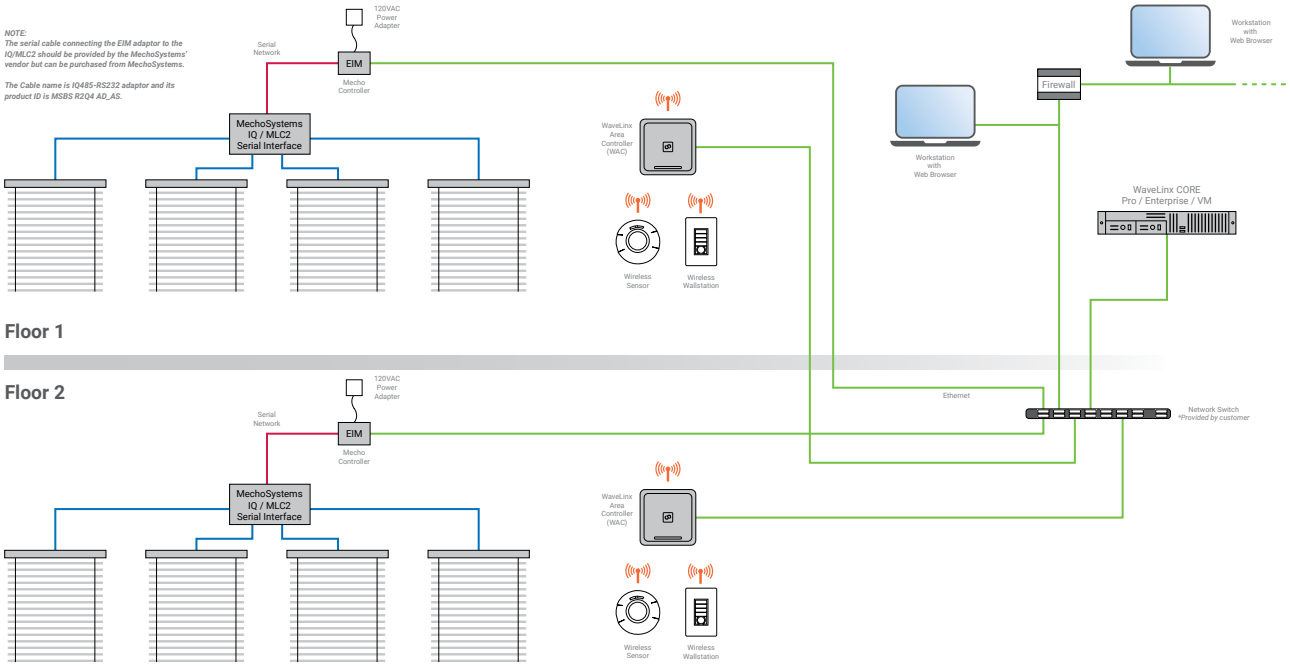
Warranty

- Consult website for warranty information.

Sample System Topology

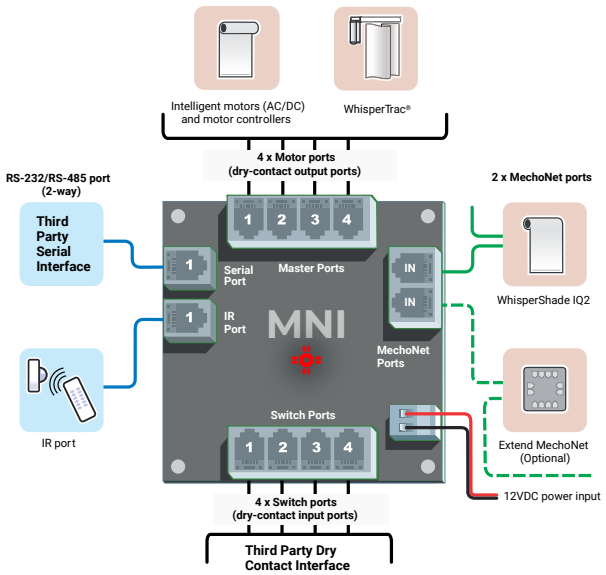
This diagram shows the main components of the WaveLinx PRO wireless and Wired Connected Lighting system.

The WaveLinx wireless system communicates using wireless mesh technology based on the IEEE 802.15.4 standard. The wireless devices communicate with the WaveLinx Area Controller wirelessly. The WaveLinx Area Controllers communicates with WaveLinx CORE over the lighting Local Area Network (LAN). WaveLinx CORE communicates with the Mechoshades controllers using Mechoshades serial interface. An ethernet to serial converter is required for each Mechoshades controller, typically one per floor. The Cooper Lighting Solutions Ethernet Interface Module (EIM) is used as the ethernet to serial converter.

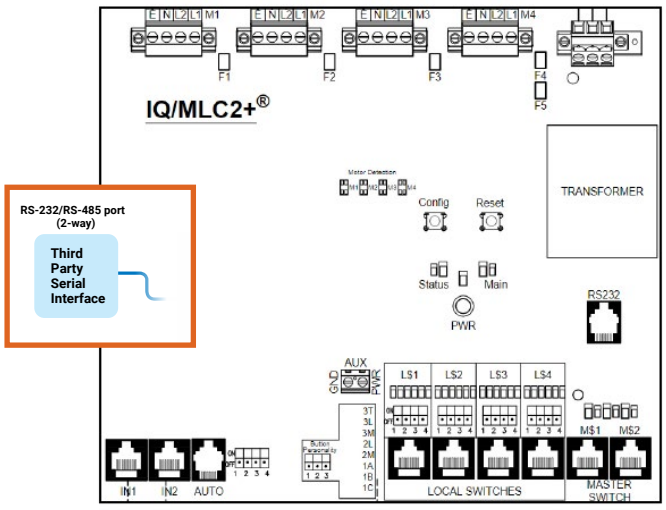


MechoNet Integration

MNI+ Interface



IQ/MLC2 Serial Interface



Sample System Topology:

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

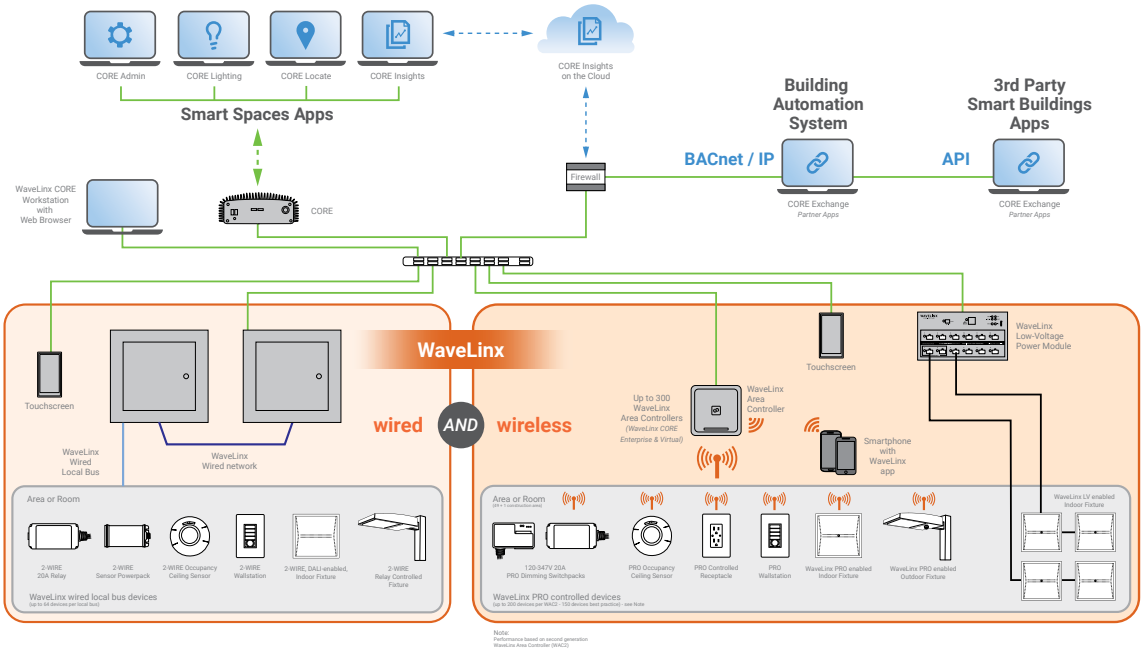
The **WaveLinx PRO wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

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



		WaveLinx wired	WaveLinx PRO wireless
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