

# SDN Power over Ethernet (PoE) Gateway

Item #: 1860326 (Kit with cable: 1870445)



## OVERVIEW:

The **SDN Power over Ethernet (PoE) Gateway** is a low-voltage power distribution and network-connected module that utilizes PoE (Power over Ethernet) technology to power and control the Somfy® 24V RS485 motorization offer for shades and draperies. The SDN PoE Gateway delivers up to 51W of power and Ethernet-based connectivity. The device supports both Somfy Synergy™ API and CoAP Digital Building API, and is compatible with Moxel Transcend Network Connected System. The Gateway is powered and connected via standard Cat 5e/6 UTP cable and controls Somfy Digital Network™ (SDN) devices.



## TECHNICAL SPECIFICATIONS:

- Input Power: UPoE up to 60W  
Output Power: 24V DC @ 2A  
Input Data: Ethernet CoAP  
Output Data: SDN RS485
- Standby Power Consumption 0.5 W
- Material: Extruded Aluminum
- Operating Temperature Range: 32°F (0°C) to 104°F (40°C)
- Dimensions: 4.7 in. L x 2.1 in. W x 1.0 in H
- Maximum Wiring Distance:
  - Cumulative from Network switch to Gateway: 328 ft. using non-shielded Category 5e cable
  - Cumulative from Gateway to all motors: 240 ft. when using SDN Low-voltage Motor Power and Data cable
  - Cumulative from Gateway to Keypad: 200 ft. using cat5e cable
- Shipping Weight: 1 lb.
- Indoor use only

**NOTE:** Caution when mounting PoE Gateway to metal surfaces or pockets. Gateway must be isolated from possible earth or building electrical grounding, as well as from other gateways.

## FEATURES SUMMARY:

- Compatible with Moxel Transcend Control System, distributes power and data to shade and drapery motors
  - Uses Power over Ethernet Switches for power and data (Poe Switch must support LLDP, and be a Cisco UPoE compliant device)
  - Capable of powering a single or multiple motors
  - Ability to program up to 16 intermediate positions per motor
  - Offers a control for groups of motors with stop and align command
  - Compatible with third-party control drivers
  - Easy and secure convergence of IP infrastructure
  - Easy to connect/disconnect; allow daisy-chain capability
  - Safe operation and industry-standard compliance (UL 2108/ UL 1310)
  - Metal enclosure meets Plenum requirements
- NOTE:** Not allowed to be on the same subnet as Moxel Gateways.

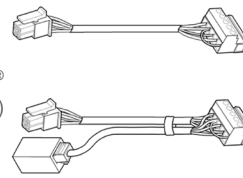
## REQUIRED PINOUT AND CABLES:

Gateway input pinout:

- Supports both ANSI/TIA/EIA 568 A & B Standards

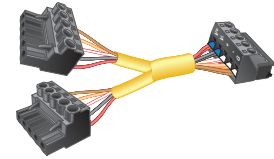
Gateway Output cables:

- PoE Gateway to Motor Adapter (9025010), Cable length: 13 in.
- PoE Gateway to Motor/ameo® Keypad Adapter (Plenum Rated) (9025011). Cable length: 13 in. overall, 8 in. to keypad

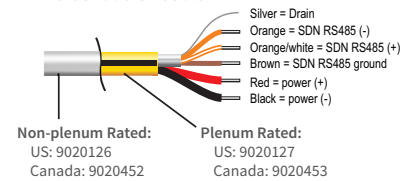


## OPTIONAL ACCESSORIES:

- Motor Daisy Chain Adapter for PoE Gateway (9020451) Cable length: 36 in.



- SDN Low-voltage Motor Power and Data Cables: 5 Conductor Cable



- SDN Motor Female Connector (9025113)
- SDN Motor Male Connector (9020743)



## WHAT'S IN THE BOX:

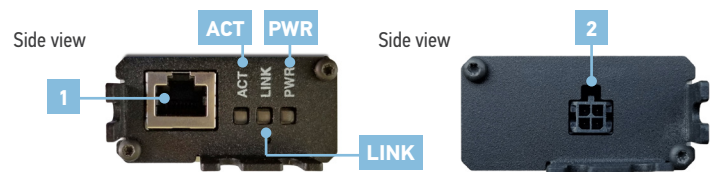
- SDN Power over Ethernet (PoE) Gateway
- Instructions

**NOTE:** Ref. # 1870445 includes the SDN Power over Ethernet (PoE) Gateway and PoE Gateway to Motor Adapter Cable (9025010) sold as a kit.

## CONNECTIONS AND INDICATORS:

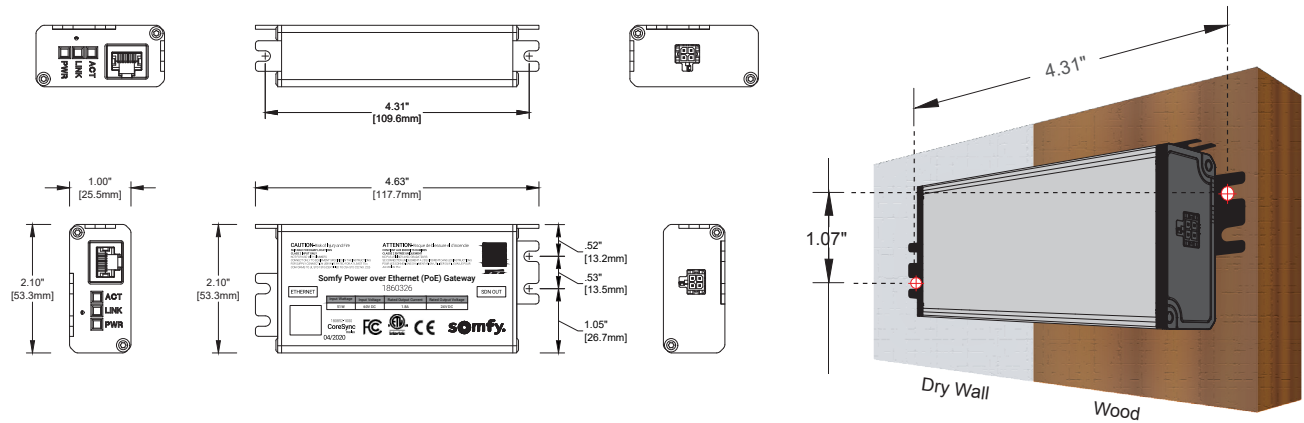


ELEMENT	FUNCTION
1	<b>Ethernet Input</b> Power and Data Input from PoE system
2	<b>SDN Output to motors</b> Power and Data output to Somfy 24V DC SDN RS485 motors



LED Indicators				
LABEL	ELEMENT	COLOR	FUNCTION ON	FUNCTION OFF
PWR	<b>Power</b>	Green	Powered	No Power
ACT	<b>Active Ethernet</b>	Green	Ethernet Active	No Ethernet Activity
LINK	<b>Communication Link</b>	Orange	Linked (Blinks)	Not Linked (not blinking)

## DIMENSIONS:



## BEST WIRING PRACTICES

The diagram shown below is meant for illustrative purposes to show the connections from product to product. This device could be used in other configurations than shown below. Refer to Power over Ethernet (PoE) wire details for more wiring guidelines.

- Control up to 4 low-voltage RS485 motors from a SDN PoE Gateway.
- When operating motors in a group, motors will cascade individually
  - Aligned operation available with Sonesse® 30 RS485 DC (maximum 2 motors)
- Total wiring between Network switch and SDN PoE Gateway should not exceed 328 ft. using non-shielded Category 5e cable.
- Total wiring between SDN PoE Gateway and all motors should not exceed 240 ft. when using Somfy SDN Low-voltage Motor Power and Data Cable.
- Gateway connects to SDN low-voltage motor cable using 4 pin to Weidmueller adaptor cable (9025010 or 9025011).

