

Collider PoE-14-AC

#COL-PoE-14-AC 2\*GE SFP +15\*GE Copper


Powered by  
**bond**


## Product Overview:

Collider™ is a Plenum-Rated Rack-Mount, din mount, or wall-mount PoE 802.3 af midspan device used to add up to fourteen PoE motors, & a Bond Bridge Pro, 2 SFP ports & two Combi-ports for Energy Harvesting up to two ESM PDU's & 2 powered 485-bus. Ports for use with RF transceivers/receivers and 485 sensors and Keypads.


The switch offers automation with Bond Bridge Pro and other compatible hubs and 3<sup>rd</sup> party control systems and a translation layer for interface with different brand remotes and wall switches.

This power distribution unit (PDU) can be joined together horizontally or vertically to allow for up to 28 PoE motors to be installed in 1RU space or can be stacked together inside a 20" wall box. The product can be used as a stand-alone solution for small PoE window treatment systems or it can be scaled for larger systems with additional hubs and other PDU's.



## Technical Specifications:

- Power Inputs:  
AC 90 ~ 264 VAC (47-63 Hz) 1.2/2.4A (C18)
- Data In/Outputs: 1G (2 SFP, 15 RJ45) 802.3af
- 485 In/Outputs: 2 (RJ45) ESM DC & Control
- Dimensions: (1.75 in. H) x (8.51 in. W) x (14.5 in. D)  
(4.3cm H) x (21.58cm W) x (24.81cm D)
- Maximum Wiring Distance
  - Motor ports: Up to 100m per motor port.  
STP with minimum 23AWG
  - 485 ports: Up to 100m.
- Shipping Weight: 9.8 lbs. [15.77kg]
- Material: Powder coated steel enclosure
- Temp Range -25~+75° C



## Features summary:

- NO NETWORKING KNOWLEDGE REQUIRED
- NO FANS**
- Direct Support for Bond Bridge Pro
- Support for 485 wall switch keypads, and RF transceivers
- Qualified Motor Support:
  - BTX® – All PoE Motors
  - Power Shades® – All PoE Motors
  - Shade Innovations® – All PoE Motors
  - SmartWings® – All PoE Motors
  - Somfy® PoE Motors not compatible
- 10-YEAR Transferable Warranty

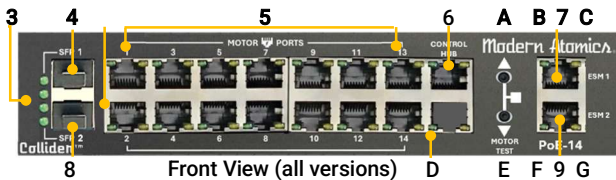


## Connections & Indicators:



Rear View (AC Versions)

ELEMENT	REAR PANEL DESCRIPTIONS
1	ENCLOSURE
2	AC INPUT C18
3	SFP STATUS
4	GE SFP 1
5	MOTOR Ports
6	BOND Port
7	COMBI Port 1
8	GE SFP 2
9	COMBI Port 2

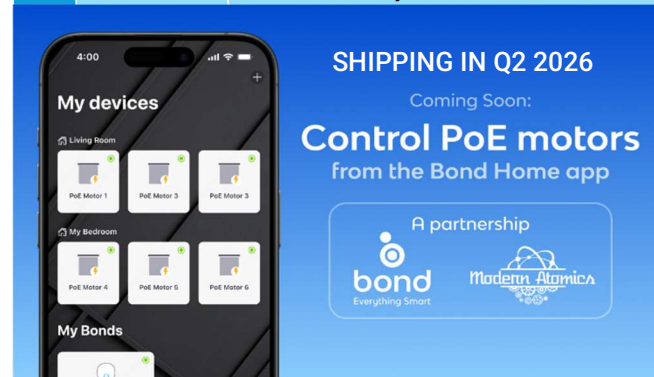


Front View (all versions)

ELEMENT	FRONT PANEL DESCRIPTIONS
A	MOTOR UP
B	ESM 1 LED
C	485 DATA
D	Control LED
E	MOTOR DN
F	ESM 2 LED
G	485 DATA

ESD: Contact:4KV,air:8KV

FCC Part15 Subpart B Class A ,EN61000-6-4



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# COLLIDER™ PoE-14 PDU



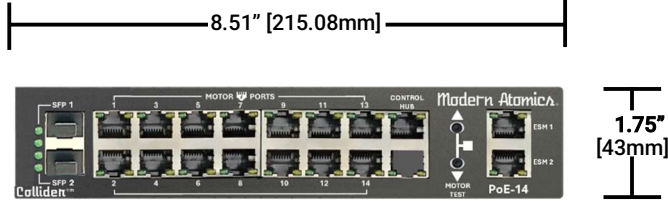
# PoE / RS-485

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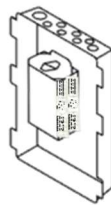
## Dimensions:



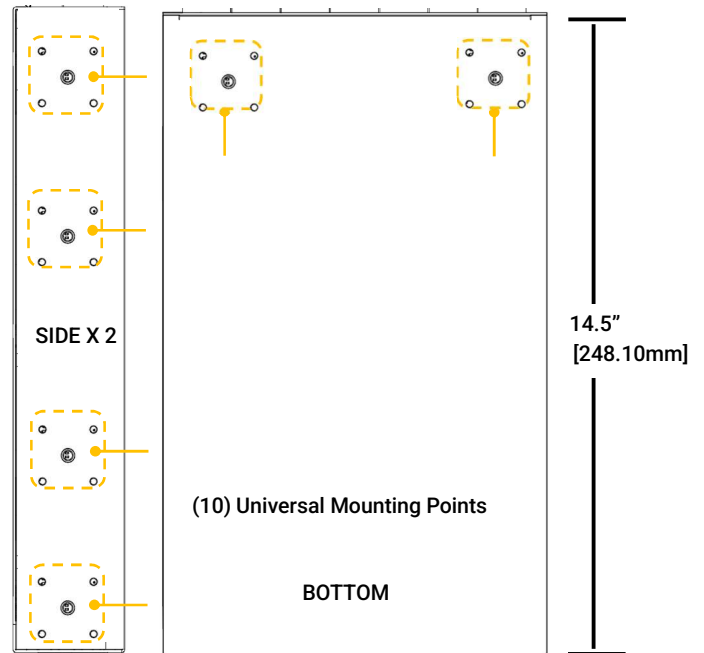
## Mounting Options:



DIN RAIL



IN-WALL ENCLOSURE



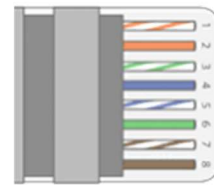
WHEN RACK MOUNTING, MUST USE BOTH FRONT AND REAR RAILS

## Included in Box:

- (1) Collider PDU
- (1/2) 2m IEC AC Cable (C17) (AC VERSIONS only)
- (4) Universal Rack Ears
- (2) Universal Din Rail Brackets with stop
- (8) #10-32 Rack Screws
- (10) M3.5 Universal mounting screws

## Cable pinouts:

PoE



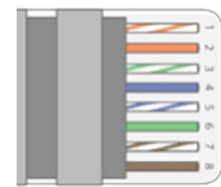
RJ45 USOC-8  
TIA/EIA 568-B

TxRx A+ / DC +  
TxRx A- / DC +  
TxRx B+ / DC -  
TxRx C+ / DC +  
TxRx C- / DC -  
TxRx B- / DC -  
TxRx D+ / DC -  
TxRx D- / DC -

## SAFETY STANDARD APPROVAL (UL ONLY ON AC VERSIONS)



485



RJ45 USOC-8  
TIA/EIA 568-B

Data A+  
Data B-  
Power +  
Power +  
Ground -  
Ground -

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Specifications subject to change without prior notice