

Collider PoE-15-AC

#COL-PoE-15-AC 2xGE SFP +15xGE Copper



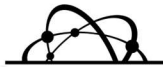
## Product Overview:

Collider™ is a Plenum-Rated Rack-Mount, din mount, or wall mount PoE 802.3 af midspan device used to add up to fifteen PoE motors, & or a Bond Bridge Pro 2 SFP ports for copper or fiber network expansion & 2 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 other systems. This power distribution unit (PDU) can be joined together horizontally or vertically to allow for up to 30 PoE motors to be installed in 1RU space or can be stacked together inside a 20" wall box. Can be used as a stand-alone solution for small PoE window treatment systems or it can be scaled.



## 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:

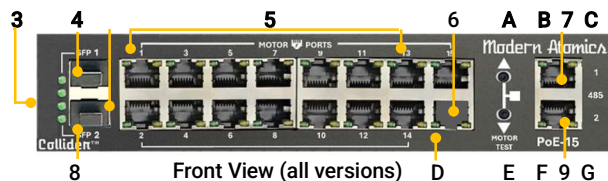
- NO NETWORKING KNOWLEDGE REQUIRED
- NO FANS
- Direct Support for **Bond Bridge Pro**
- Support for 485 wall switch keypads, and RF transceivers
- Qualified Motor Support:
  - BTX® – All PoE Motors
  - Power Shades® – All PoE Motors
  - SmartWings® – All PoE Motors
  - Somfy® PoE Motors not compatible**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



## Connections & Indicators:



Rear View (AC Versions)



Front View (all versions)

ELEMENT	REAR PANEL DESCRIPTIONS
1	ENCLOSURE Plenum Rated Steel Enclosure
2	AC INPUT C18 90-264VDC with Galvanic Isolation
3	SFP STATUS SFP STATUS LED (On when link)
4	GE SFP 1 Fiber or Copper Gigabit Expansion
5	MOTOR Ports 15 GE PoE Motor Ports
6	BOND Port Bond Bridge Pro & 3 <sup>rd</sup> party control
7	COMBI Port 1 485 Device / ESM Harvesting
8	GE SFP 2 Fiber or Copper Gigabit Expansion
9	COMBI Port 2 485 Device / ESM Harvesting

ELEMENT	FRONT PANEL DESCRIPTIONS
A	MOTOR UP PoE Motor UP Test button
B	ESM 1 LED Indicates Energy Harvesting 1 Active
C	485 DATA 485 Data Activity
D	Control LED Translation Layer Data Activity
E	MOTOR DN PoE Motor DOWN Test button
F	ESM 2 LED Indicates Energy Harvesting 2 Active
G	485 DATA 485 Data Activity / EoL

ESD: Contact:4KV,air:8KV

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



SHIPPING IN Q2 2026

Coming Soon:

## Control PoE motors

from the Bond Home app

A partnership

# COLLIDER™ PoE-15 PDU

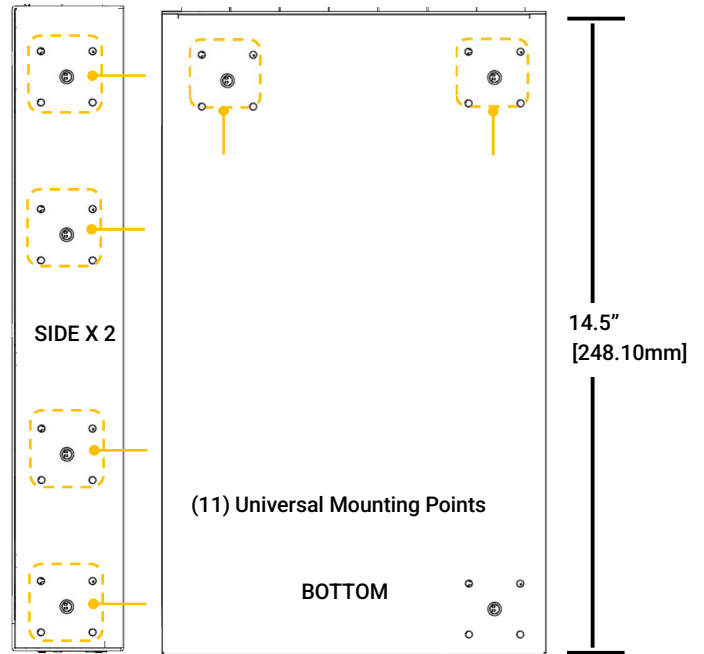
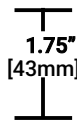
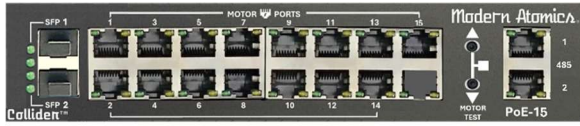
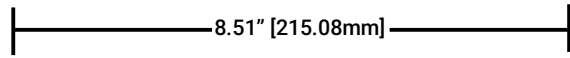
# PoE / RS-485

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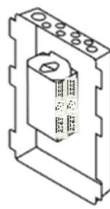
Dimensions:



## 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:



## SAFETY STANDARD APPROVAL

(UL ONLY ON AC VERSIONS)



UL/cUL UL 62368-1

EN (BS EN) 55032 Class B

TUV EN 62368-1

EN (BS EN) 55035 Class B

CB IEC 62368-1

FCC Part 15 Class B

CCC GB 4943.1

CCC GB/T 9254.1

IEC/EN 61558-1 (Class II)

CCC GB17625.1

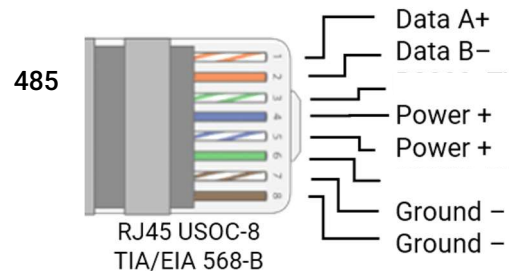
IEC/EN 61558-2-16 (Class II)

EN55014-1 (class II)

EN55014-2 (Class II)

ICES-003

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