

Collider PoE-15af

#COL-PoE-15af 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.

The switch offers automation with Bond Bridge Pro and other compatible hubs and 3rd 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 24VDC & 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:

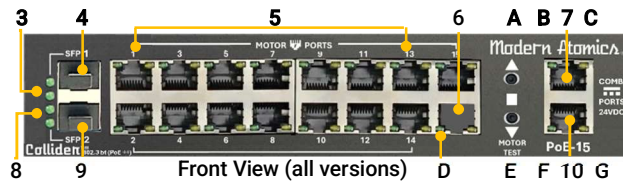
- NO NETWORKING KNOWLEDGE REQUIRED
- NO FANS
- Direct Support for **Bond Bridge Pro**
- 65W PoE Budget
- Motor Test Buttons for up down and stop
- Qualified Motor Support:
 - BTX® – All PoE Motors
 - Power Shades® – All PoE Motors
 - SmartWings® – All PoE Motors
- 10-YEAR Transferable Warranty

Somfy® PoE Motors not compatible

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 rd party control
7	COMBI Port 1 485 Device / ESM Harvesting
8	POWER LEDS Indicates power for both banks
9	GE SFP 2 Fiber or Copper Gigabit Expansion
10	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

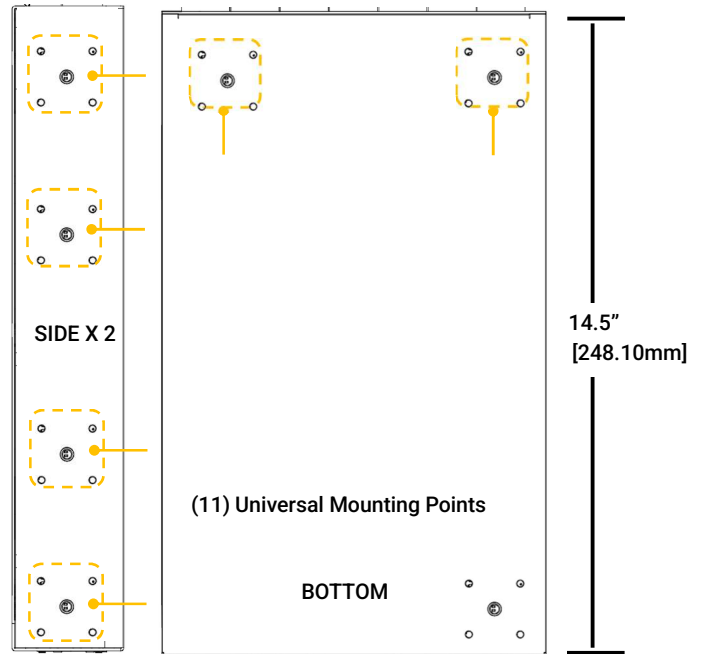
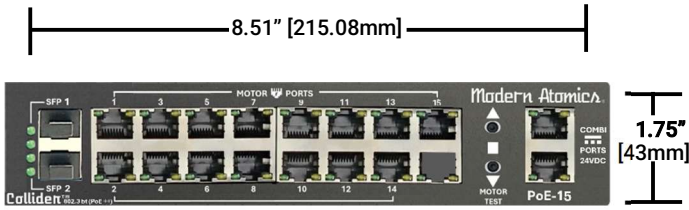
A partnership

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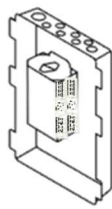
Dimensions:



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

(16) M3.5 Universal mounting screws

SAFETY STANDARD APPROVAL

(UL ONLY ON AC VERSIONS)



UL/cUL UL 62368-1

TUV EN 62368-1

CB IEC 62368-1

CCC GB 4943. 1

IEC/EN 61558-1 (Class II)

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

EN (BS EN) 55032 Class B

EN (BS EN) 55035 Class B

FCC Part 15 Class B

CCC GB/T 9254. 1

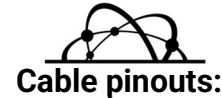
CCC GB17625. 1

EN55014-1 (class II)

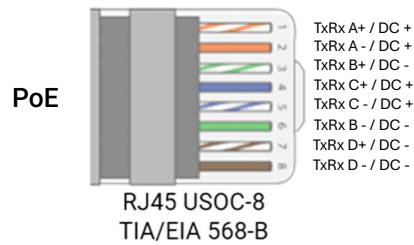
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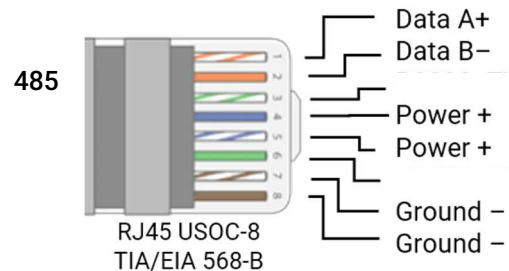


Cable pinouts:



PoE

RJ45 USOC-8
TIA/EIA 568-B



485

RJ45 USOC-8
TIA/EIA 568-B

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Specifications subject to change without prior notice

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