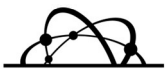


Collider PoE-15af

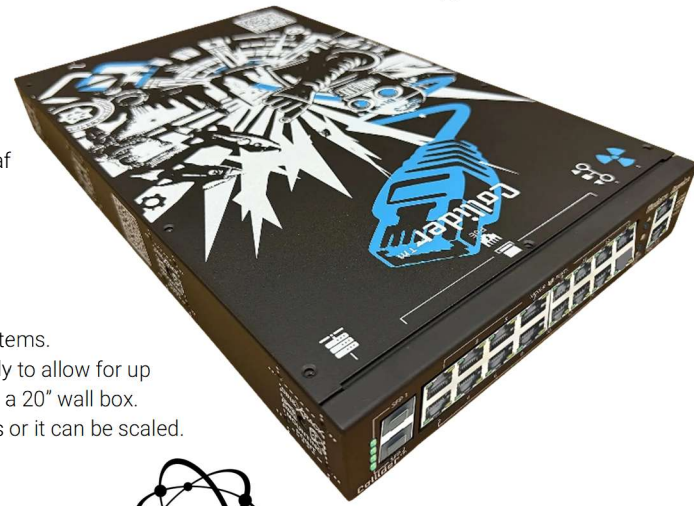
#COL-PoE-15af 2xGE SFP +15xGE Copper



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:

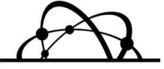
- Power Inputs:
 - AC 90 ~ 264 VAC (47-63 Hz) 1.2/2.4A (C18)
- Data In/Outputs: 1G (2 SFP, 15 RJ45) 802.3af
- 485 In/Outputs: 2 (RJ45) ESM 24VDC & Control
- Dimensions: (1.75 in. H) x (8.51 in. W) x (14.5 in. D)
(4.3cm H) x (21.58cm W) x (24.81cm D)
- Maximum Wiring Distance
 - Motor ports: Up to 100m per motor port.
STP with minimum 23AWG
 - 485 ports: Up to 100m.
- Shipping Weight: 5.8 lbs.
- Material: Powder coated steel enclosure
- Temp Range -25~+75° C



Features summary:

- NO NETWORKING KNOWLEDGE REQUIRED
- NO FANS
- Direct Support for **Bond Bridge Pro**
- 110W PoE Budget (NO LLDP Support)
- Motor Test Buttons for up down and stop
- Proxy translation support for 485 motors and user devices for control
- Energy Harvesting for up to 2 PDUS (Reaktor, Neutron)
- Qualified Motor Support:
 - BTX® – All PoE Motors
 - Power Shades® – All PoE Motors
 - SmartWings® – All PoE Motors
 - SmartWings® – All RENKEI PoE Motors

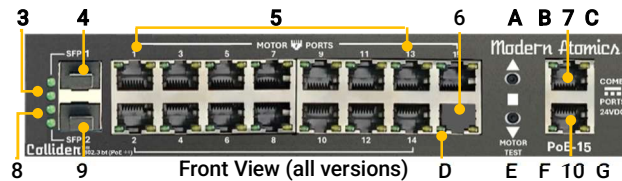
Somfy® PoE Motors not compatible due to NO LLDP and PoE af



Connections & Indicators:



Rear View (AC Versions)



Front View (all 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	POWER LEDS
9	GE SFP 2
10	COMBI Port 2

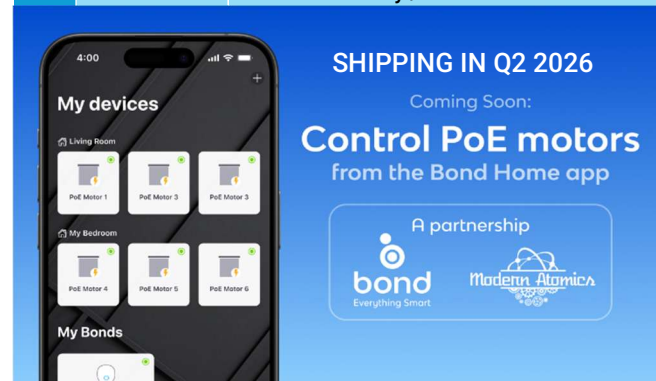
ELEMENT	FRONT PANEL DESCRIPTIONS
A	MOTOR UP
B	ESM 1 LED
C	485 DATA
D	EDGE AI
E	MOTOR DN
F	ESM 2 LED
G	485 DATA

ESD: Contact:4KV,air:8KV

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



CEDIA
MEMBER



COLLIDER™ PoE-15af PDU

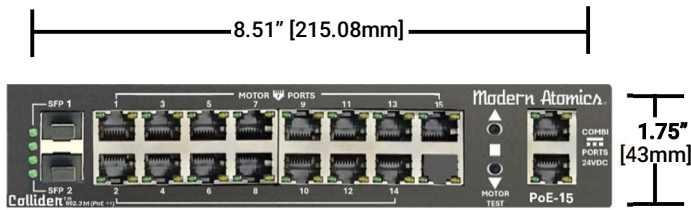
PoE / RS-485

Collider PoE-15af

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



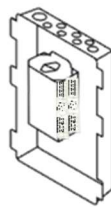
Dimensions:



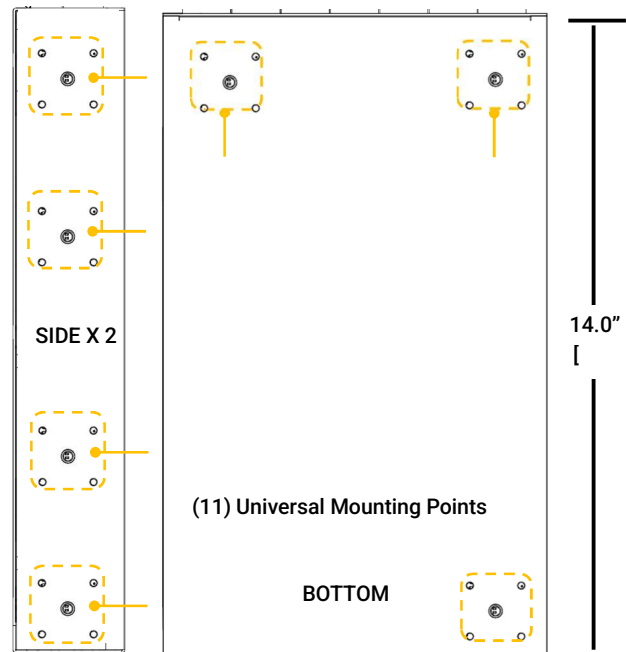
Mounting Options:



DIN RAIL



IN-WALL ENCLOSURE



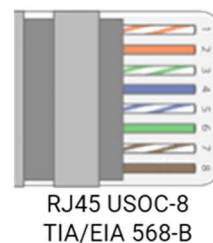
WHEN RACK MOUNTING, MUST USE BOTH FRONT AND REAR RAILS

Included in Box:

- (1) Collider PDU +(1) Copper SFP default / Fiber SFP option
- (1) 2m IEC AC Cable (C17) (AC VERSIONS only)
- (2) Universal Rack Ears



Cable pinouts:



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

PoE

(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

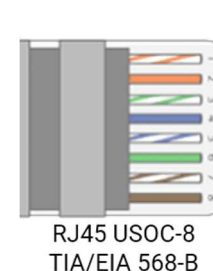
EN55014-1 (class II)

EN55014-2 (Class II)

ICES-003



485



Data A+
Data B-

Power +
Power +

Ground -
Ground -

All brand names, product names and trademarks are the property of their respective owners. Certain trademarks, registered trademarks, and trade names may be used to refer to either the entities claiming the marks and names or their products.



WWW.MODERNATOMIX.COM

©2026 MODERN ATOMIX LLC | #340123 AUG 2026

23438 Texas Highway 35, Palacios, Texas 77465, United States

Specifications subject to change without prior notice