

LARGE TEXAS COLLIDER™ PoE-15bt PoE/485

Large Texas Collider PoE-15bt

#LTC-PoE-15bt 2xGE SFP +15xGE Copper

Product Overview:

Collider™ is a Plenum-Rated Rack-Mount, din mount, or wall mount PoE 802.3 bt 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 and 2 powered 485-bus ports.

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:
 - (2) AC 90 ~ 264 VAC (47-63 Hz) 10A total (C7)
- Data In/Outputs: 1G (2 SFP, 15 RJ45) 802.3bt++
- 485 In/Outputs: 2 (RJ45) 24VDC(top port) & 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

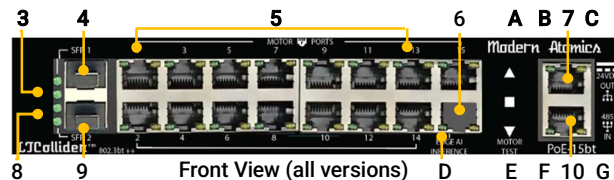
Features summary:

- NO NETWORKING KNOWLEDGE REQUIRED
- NO FANS
- Direct Support for **Bond Bridge Pro**
- 675W PoE Budget and full LLDP support
- Motor Test Buttons for up down and stop
- Energy Harvesting for one PDU (Reaktor or Neutron)
- Qualified Motor Support:
 - BTX® – All PoE Motors
 - Power Shades® – All PoE Motors
 - SmartWings® – All PoE Motors
 - Somfy® – All PoE Motors
- 5-YEAR Transferable Warranty

Connections & Indicators:



Rear View (AC Versions)



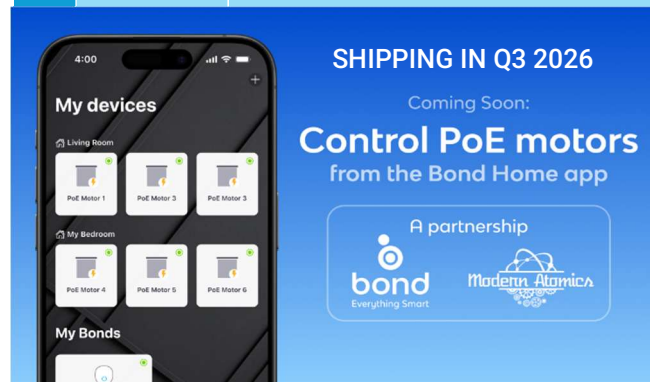
Front View (all versions)

ELEMENT	REAR PANEL DESCRIPTIONS
1	AC INPUT C7 90-264VDC for ports 9-15
2	AC INPUT C7 90-264VDC for ports 1-8
3	SFP DATA SFP DATA ACTIVITY
4	GE SFP 1 Fiber or Copper Gigabit Expansion
5	MOTOR Ports 15 GE PoE Motor Ports
6	EDGE AI 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 / Non-Powereed

ELEMENT	FRONT PANEL DESCRIPTIONS
A	MOTOR UP Motor UP Test button (Hold for 2s)
B	UP LED Flashes with UP movements
C	485 DATA 485 Data Activity
D	EDGE AI EDGE AI INFERENCE
E	MOTOR DN Motor DOWN Test button (hold for 2s)
F	DOWN LED Flashes with DOWN movements
G	485 DATA 485 Data Activity

ESD: Contact:4KV,air:8KV

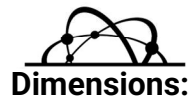
FCC Part15 Subpart B Class A ,EN61000-6-4



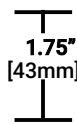
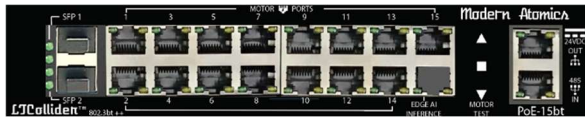
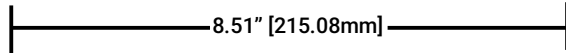
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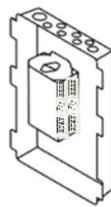
Dimensions:



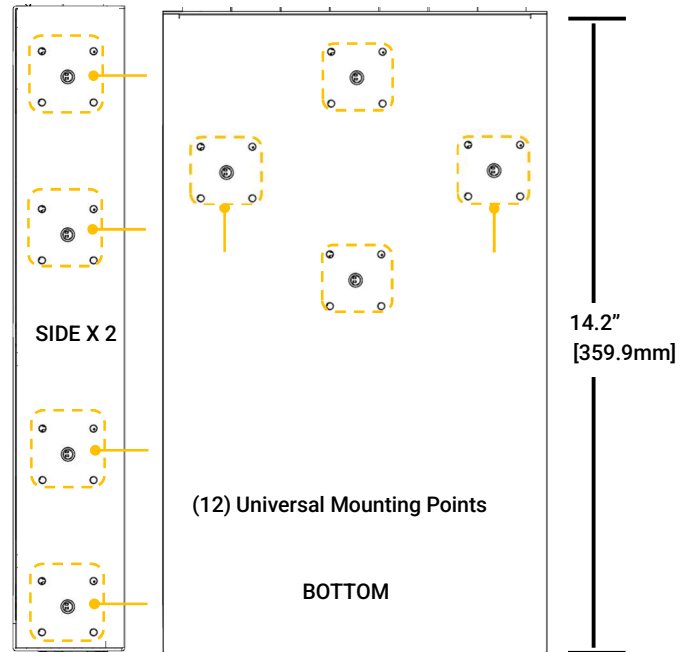
Mounting Options:



DIN RAIL



IN-WALL ENCLOSURE



WHEN RACK MOUNTING, MUST USE BOTH FRONT AND REAR RAILS



Included in Box:

- (1) Collider PDU
- (1) Dual IEC AC Cable (C7) and (1) 6' IEC AC C18 (AC VERSIONS only)
- (2) 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

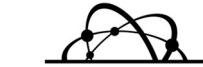
CCC GB17625. 1

EN55014-1 (class II)

EN55014-2 (Class II)

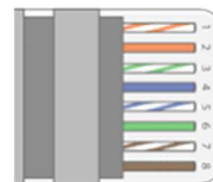
ICES-003

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Cable pinouts:

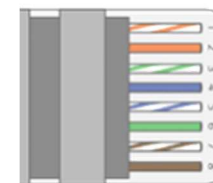
PoE



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 -

485



RJ45 USOC-8
TIA/EIA 568-B

Data A+
Data B-

Power +Top port
Power +ONLY

Ground -
Ground -

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Specifications subject to change without prior notice

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