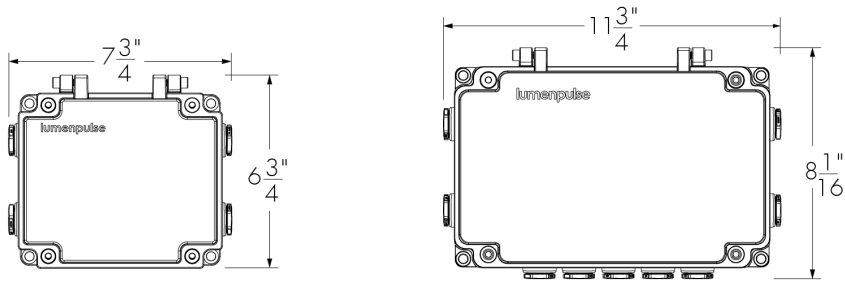


Project Name

Qty

Type

Catalog / Part Number



Daisy chain configuration, 100-277V

Daisy chain configuration, 347V
Star configuration, 100-347V

Protocols Supported



Lumencycle™ Program



Certifications



Description

The Lumenpulse Ethernet Control Box (CBX-ENET) is fully compliant with both sACN and Art-Net protocols. It has the expanded capability of controlling up to four unique universes via the four physical output ports. Dual Ethernet ports allow for daisy chain functionality and simplify installation topologies. Other new advantages include: quicker commissioning via auto discovery, faster transfer of demanding content data in large scale installations, and a simpler integration with third-party monitoring devices.

Features

Configurations	Daisy chain (1 output), Star (up to 4 outputs)
Universes Supported	Up to 4 individually controlled universes
Input Protocols Supported	Art-Net 3, Streaming ACN (sACN)
Output Protocols Supported	DMX Control, ExtendX™
Test Button	Dynamic show broadcast for testing
Indicator Lights	TX and RX LED lights per port, Link speed and activity LED lights on Ethernet ports
3G Vibration Rated	Meets 3G ANSI C136.31-2010 vibration standard for bridge applications
Option	Corrosion-Resistant Coating for Hostile Environments
Warranty	5-year limited warranty

Physical

Housing Material	Die cast aluminum
Compartments	Base for connections, Cover for electronics
Cover	Hinged with safety cable
Surface Finish	Electrostatically applied polyester powder coat

Weight	3.75 lbs (small housing)
	7.95 lbs (large housing)

Electrical and Control

Input Voltage	100 to 347 volts
Power Input	1/2" provision hole for 1/2" NPT, PG16 or 20mm
Data Input	1/2" provision hole for 1/2" NPT, PG16 or 20mm
Output	Up to 4 outputs, 1/2" provision hole for 1/2" NPT, PG16 or 20mm
Control	Ethernet to DMX Signal, Ethernet to ExtendX™ Signal
Luminaire Interface	5 or 6 conductor compliant
Recommended Wiring	ANSI/TIA-568 CAT5e+ UTP or STP

Environmental

Storage Temperature	-40 °F to 185 °F
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP66

Important

Virtual Patent Marking Notice

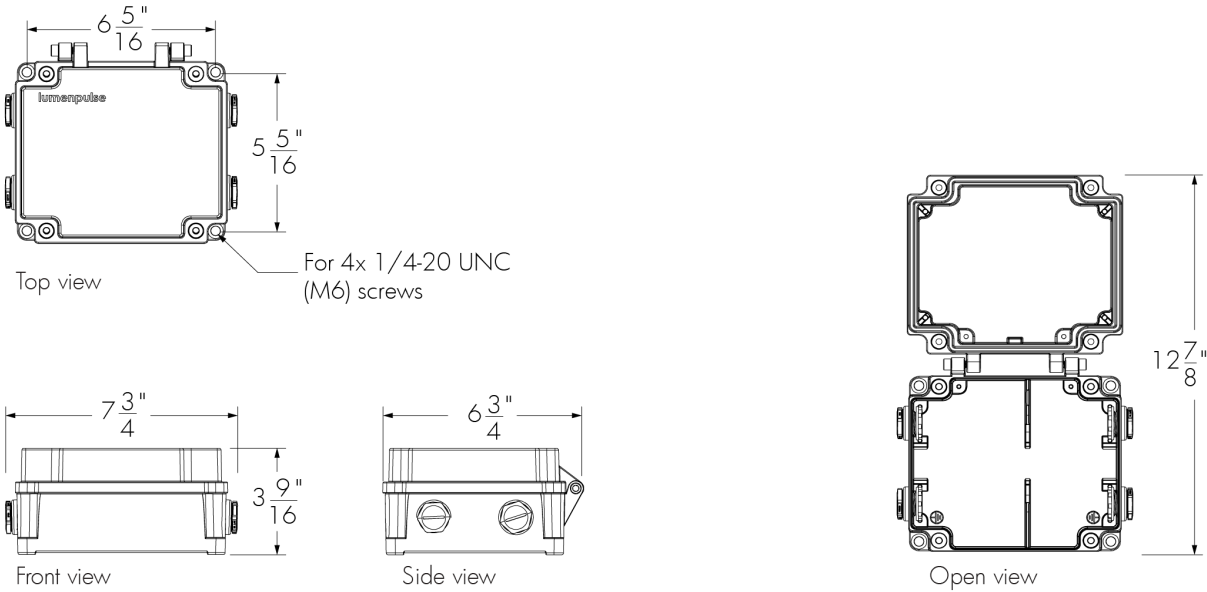
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Lumencycle™ Program

Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

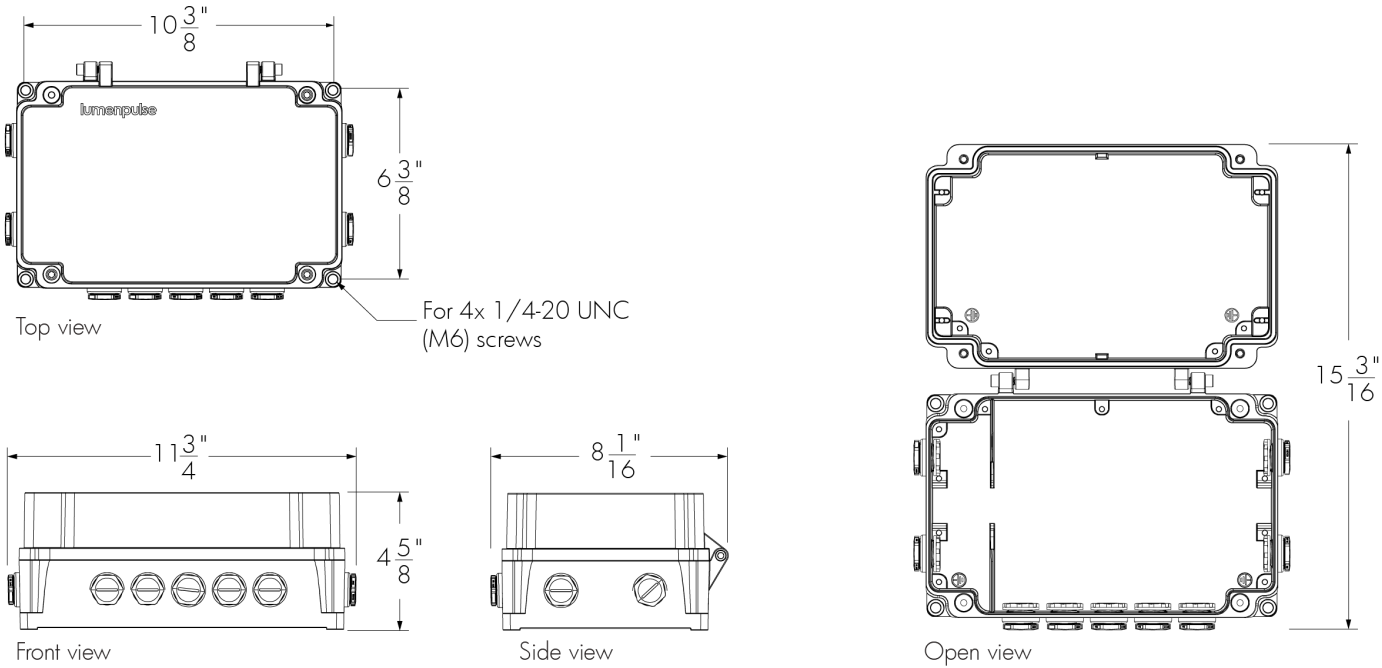
Dimensions

Small Housing



DS - Daisy Chain configuration, 100-277V

Large Housing

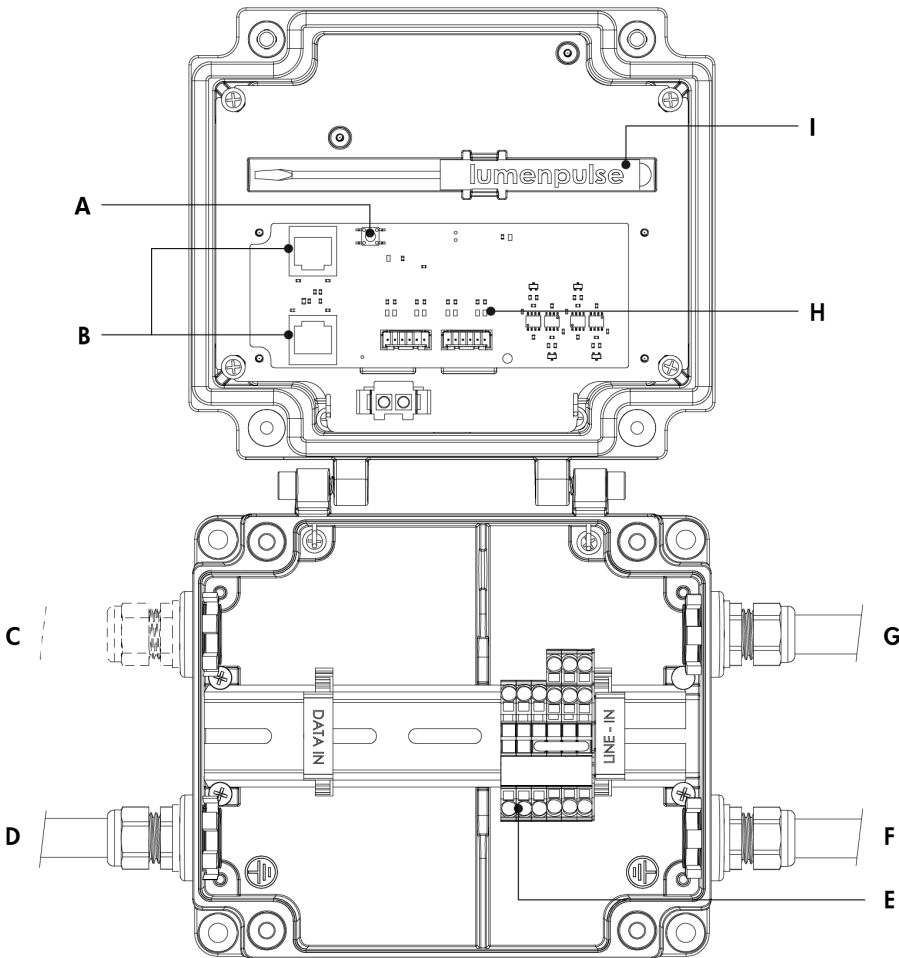


DS - Daisy Chain configuration, 347V

ST - Star configuration, 100-347V

Input And Output Details

CBX-DS, 100-277V Configuration



A - Test Button

Test fixtures with a simple button press that broadcasts a dynamic show to all of the fixtures on the line - with no programmer or console required. Once all fixtures are confirmed operational, the user can simply press the test button again and the test show will turn off.

B - Ethernet Ports

Dual daisy-chainable 10/100BASE-T Ethernet ports with link speed and activity LED indicator lights.

C - Optional Ethernet Connection to Next CBX

D - Ethernet Connection

ANSI/TIA-568 CAT5e+ UTP or STP

E - Terminal Blocks (Power/Data Output)

Recommended wire gauge: 16 AWG [1.31mm²]

Range: 24-12 AWG [0.205-3.301mm²]

F - Power & Data Output to Fixture, 5 or 6 Conductor Cable*

*6 Conductors for ExtendX Control.

Note: 5 and 6 conductor fixtures cannot be combined in the same CBX.

G - Power Input (100-277V)

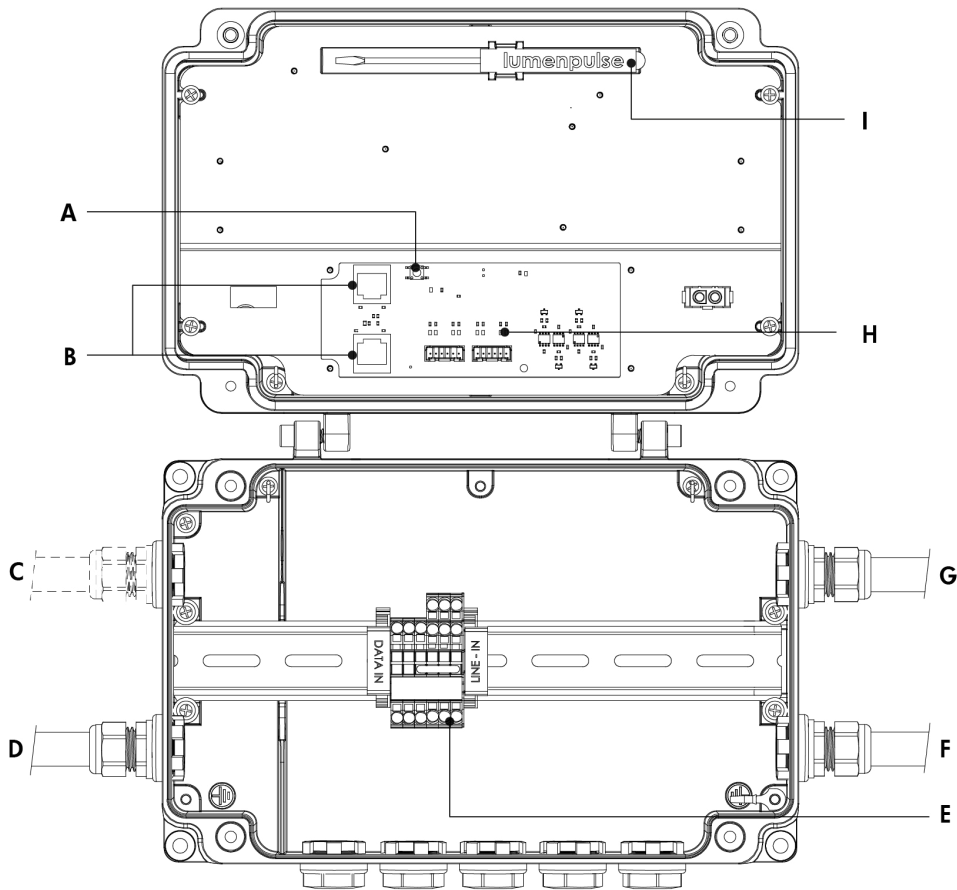
H - Output Port LED Indicator Lights

Visual check of transmission and reception signals.

I - Tool for Connector Operation

Refer to installation instructions for additional wiring details.

CBX-DS, 347V Configuration



A - Test Button

Test fixtures with a simple button press that broadcasts a dynamic show to all of the fixtures on the line - with no programmer or console required. Once all fixtures are confirmed operational, the user can simply press the test button again and the test show will turn off.

B - Ethernet Ports

Dual daisy-chainable 10/100BASE-T Ethernet ports with link speed and activity LED indicator lights.

C - Optional Ethernet Connection to Next CBX

D - Ethernet Connection

ANSI/TIA-568 CAT5e+ UTP or STP

E - Terminal Blocks (Power/Data Output)

Recommended wire gauge: 16 AWG [1.31mm²]

Range: 24-12 AWG [0.205-3.301mm²]

F - Power & Data Output to Fixture, 5 or 6 Conductor Cable

Note: 5 and 6 conductor fixtures cannot be combined in the same CBX.

G - Power Input (347V)

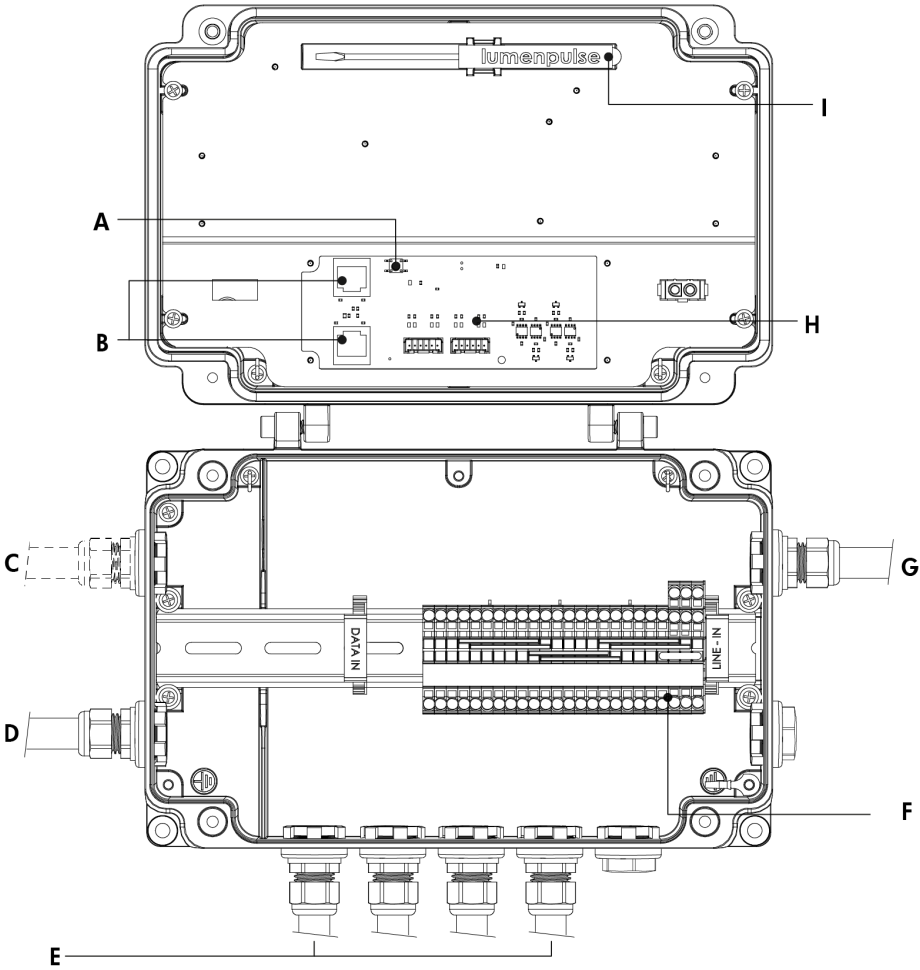
H - Output Port LED Indicator Lights

Visual check of transmission and reception signals.

I - Tool for Connector Operation

Refer to installation instructions for additional wiring details.

CBX-ST, 100-347V Configuration



A - Test Button

Test fixtures with a simple button press that broadcasts a dynamic show to all of the fixtures on the line - with no programmer or console required. Once all fixtures are confirmed operational, the user can simply press the test button again and the test show will turn off.

B - Ethernet Ports

Dual daisy-chainable 10/100BASE-T Ethernet ports with link speed and activity LED indicator lights.

C - Optional Ethernet Connection to Next CBX

D - Ethernet Connection

ANSI/TIA-568 CAT5e+ UTP or STP

E - Power & Data Outputs to Fixture, 5 or 6 Conductor Cable*

*6 Conductors for ExtendX Control.

Note: 5 and 6 conductor fixtures cannot be combined in the same CBX.

F - Terminal Blocks (Power/Data Output)

Recommended wire gauge: 16 AWG [1.31mm²]

Range: 24-12 AWG [0.205-3.301mm²]

G - Power Input (100-347V)

H - Output Port LED Indicator Lights

Visual check of transmission and reception signals.

I - Tool for Connector Operation

Refer to installation instructions for additional wiring details.

How to Order

Housing	Input Voltage	Control	Finish	Option	Certification
CBX-DS Power and Control box, Daisy Chain Configuration (1 output) CBX-ST Power and Control box, Star Configuration (up to 4 outputs)	100 100 Volts 120 120 volts 208 208 volts 220 220 Volts 240 240 volts 277 277 volts 347 347 Volts ⁽¹⁾	ENET Ethernet to DMX Signal ETX Ethernet to ExtendX™ Signal ⁽²⁾ ⁽³⁾	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White BKTX Textured Black BRZTX Textured Bronze Non-Metallic GRATX Textured Medium Gray GRNTX Textured Green WHTX Textured White CC Custom Color & Finish ⁽⁴⁾ ⁽⁵⁾ ⁽⁶⁾	CRC Corrosion-Resistant Coating ⁽⁷⁾ ⁽⁸⁾	UL UL Compliant CE CE Compliant

Notes:

1. Consult fixture specification sheets for 347V availability.

2. Available for Lumenfacade Max fixtures only.

3. Not available with 347V.

4. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
5. Setup charges apply for RAL colors. Consult factory for details.

6. Longer lead times can be expected for custom RAL color finishes.

7. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

8. Setup charges apply. Consult factory for details.