XS-108H

8-Port IEEE 802.3bt / X-PoE® Lighting Controller

Product Specification



PRODUCT OVERVIEW

The XS-108H lighting controller is a high-performance solution for remote constant current/voltage LED driving. The XS-108H is certified to UL 924 making emergency lighting design simple.

It provides 8 ports that can operate as IEEE 802.3bt PoE++ (90W per port), X-PoE®, or X-PoE® Max (134W per port at 57V input).

The unit uses a 48VDC to 57VDC low-voltage input and is designed to maintain efficient, reliable power delivery to connected LED fixtures.

CONFIGURATIONS

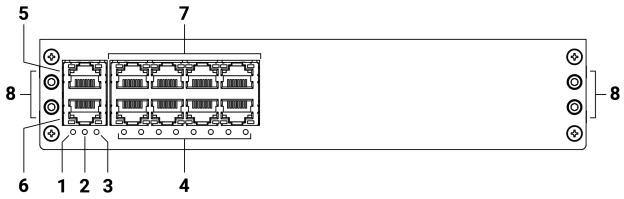
XS-108H: Single-controller configuration with 8 IEEE/X-PoE® lighting ports and uplink/downlink ports.

XS-108H-N: Includes 100 Mbps networking on ports 1-6

FEATURES

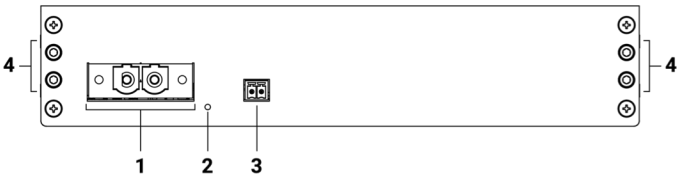
Power delivery	8 lighting RJ45 ports with IEEE 802.3bt PoE++ or 2-channel X-PoE® output
	Per-port operation: up to 90W IEEE PoE mode, X-PoE® variable output by load voltage/current, or up to 134W X-PoE® Max mode (at 57VDC input)
Flexible mounting	Half rack 1U form factor with option to join 2 units for full rack width
	Can also be wall-mounted using included brackets
Networked lighting control	Directly interfaces with Luum.io Lighting Control System via Ethernet or PoE for real-time monitoring and control
	Supports over-the-air firmware updates and remote configuration via Luum.io
	Supports 3rd-party integrations over a local secure MQTT broker when connected to a local network
Flexible system interfaces	Pin-hole operation/reset controls with multiple press-count actions
	Front and rear status LEDs for system and port diagnostics
	Dry-contact programming override input with configurable activation polarity
Certifications	UL 62368-1, UL 2108-1, UL 924, CSA C22.2#62368-1
Warranty	5-year limited warranty with uninterrupted connection of the Amatis Border Router device from a network

FRONT PANEL



1. System Reset Button
2. System Status LED
3. Programming Override Button
4. Port X-PoE® Status LEDs
5. Ethernet Uplink RJ45
6. Ethernet Downlink RJ45 - XS-108H-N only
7. IEEE/X-PoE® Lighting Ports
8. Coupling Bracket Mounting Holes

BACK PANEL



1. Power Input (48VDC to 57VDC)
2. System Power LED
3. Programming Override Input (dry contact closure)
4. Coupling Bracket Mounting Holes

 ©2026 Luum. All rights reserved.

TECHNICAL SPECIFICATIONS

Category	Specification	XS-108H	XS-108H-N
MECHANICAL	Dimensions	219 mm x 254.7 mm x 44 mm (8.6 in x 10 in x 1.7 in) without mounting brackets	
	Weight	4.2 lb (1.9 kg) without mounting brackets	
	Thermal Dissipation	200 BTU/h	
INTERFACES	Uplink Ports	(1) Uplink RJ45 Port	
	Downlink Ports	N/A	(1) Downlink RJ45 Port
	PoE & Lighting Ports	(8) IEEE 802.3bt PoE++ / 2-channel X-PoE® Lighting RJ45 Ports	
	Networking Ports	N/A	(6) 100 Mbps RJ45 Ports Networking is provided by the first 6 PoE & Lighting ports
	Power Input Port	(1) DC Power Input Port	
	Aux... Dry Contact Input Port	(1) Aux. Dry Contact Input Port Configurable as a programming override input with selectable activation polarity and per-channel override levels.	
	Operation / Reset Buttons	(2) Pin-Hole Operation/Reset Buttons	
ELECTRICAL	Power Input	48VDC to 57VDC input, up to 1,000W, size power supply based on connected load	
	Power Output (per Channel)	Current: 1115mA max; Voltage: 24VDC to 57VDC; Power: 65W max (at 57VDC)	
	Maximum Power Consumption	1,000W with all channels fully loaded at 100% Maximum output power depends on input voltage and the forward voltage of the connected light engine.	
	Power Metering	± 2.5% accuracy under typical load conditions, ± 5% below 10W	
	Standby Power	<6W	
	Power Efficiency	>95% efficient at typical load	
ENVIRONMENT	Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)	
	Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
	Humidity	10% to 90% (non-condensing)	
GENERAL	Certifications	UL 62368-1, UL 2108-1, UL-924, CSA C22.2#62368-1	
	Warranty	5-year limited warranty with continuous cloud connection	

Note: Actual performance may vary as a result of end-user environment and application.

 ©2026 Luum. All rights reserved. LUUM.iO