

INTELLIGENT LOGIC CONTROLLER DIN RAIL

5-CHANNEL LOGIC CONTROLLER

MADE IN AMERICA

REV 10.18.24



DESCRIPTION

The Intelligent Logic Controller is a cutting-edge networkable controller designed specifically for constant voltage 5-channel luminaires. It surpasses traditional LED ballasts, LED drivers, and DMX controllers by integrating PureEdge's TruColor™ technology. This combination ensures precise control over all five channels, delivering highly accurate Correlated Color Temperature (CCT) levels and vibrant color output. This makes the Intelligent Bridge Box the ideal choice for managing 5-channel luminaires with precision and flexibility.

This component is intended to be used in conjunction with at least one per application of GDIN-UNITY1.

FEATURES

- Flicker-Free Dimming: 0.1% dimming with no visible flicker.
- Circadian Support: Calibrated for circadian lighting.
- Automation Compatibility: Integrates easily with popular systems and enhances their functionality.
- Scene Selection: Includes static and dynamic options.
- Bi-Directional Feedback: Provides real-time updates and feedback.
- Low-End Gamma Correction: Ensures smooth dimming to black.
- Full Tunable White: 1500K to 6500K range.
- Extensive Network Control: Supports up to 254 controllers per zone.
- 64K Dimming Steps: Significantly higher than typical systems (100 or 200 steps).
- Individual Addressability: Allows precise control of connected devices.

POWER INPUT (POWER SUPPLY SOLD SEPARATELY)

- HDR-100-24N

AMBIENT OPERATING TEMPERATURE

-20° C to 45° C

LIFETIME

50,000 hours

INSTALLATION

The Intelligent Bridge Box is designed with a compact form factor, making it easy to install in various spaces such as soffits, equipment racks, junction boxes (J-Boxes), or control panels. Its small size does not compromise its functionality; instead, it enhances flexibility in placement.

APPLICATIONS

Indoor, Dry locations only.

CONNECTIVITY

- VPAD (virtual keypad) PC application
- Any third-party serial communication utility
- Lighting panels from Lutron & Vantage
- Automation systems from Crestron, Control 4, Elan Home Systems, Leviton/Bitwise, RTI, Savant and others

COMPLIANCE

UL Listed (UL File 2108). CSA (C22.2#9.0), RoHS, PCB UL-94VO certified, Rated to work with UL rated Category 2 power supplies, Made in America

Product	Wattage	Control	Voltage	Color Temperature
LCDIN	96W	5C	24V	TC
LCDIN Logic Controller DIN Rail	96W 96 Watts	5C 5-Channel	24V 24 VDC	TC TruColor™ Red, Blue, Green, Tunable White 1600K-6500K



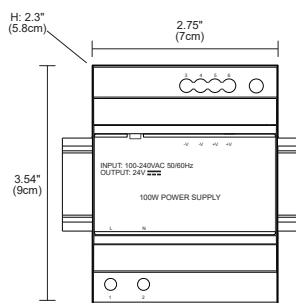
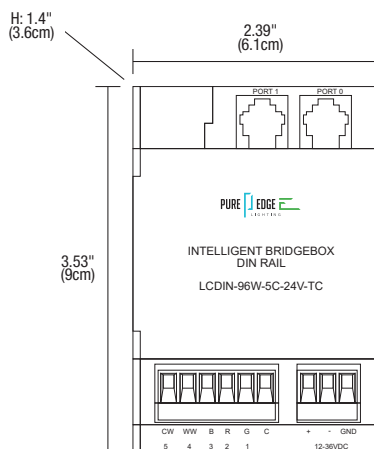
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5-CHANNEL LOGIC CONTROLLER

OVERVIEW

Intelligent Bridgebox Dimensions



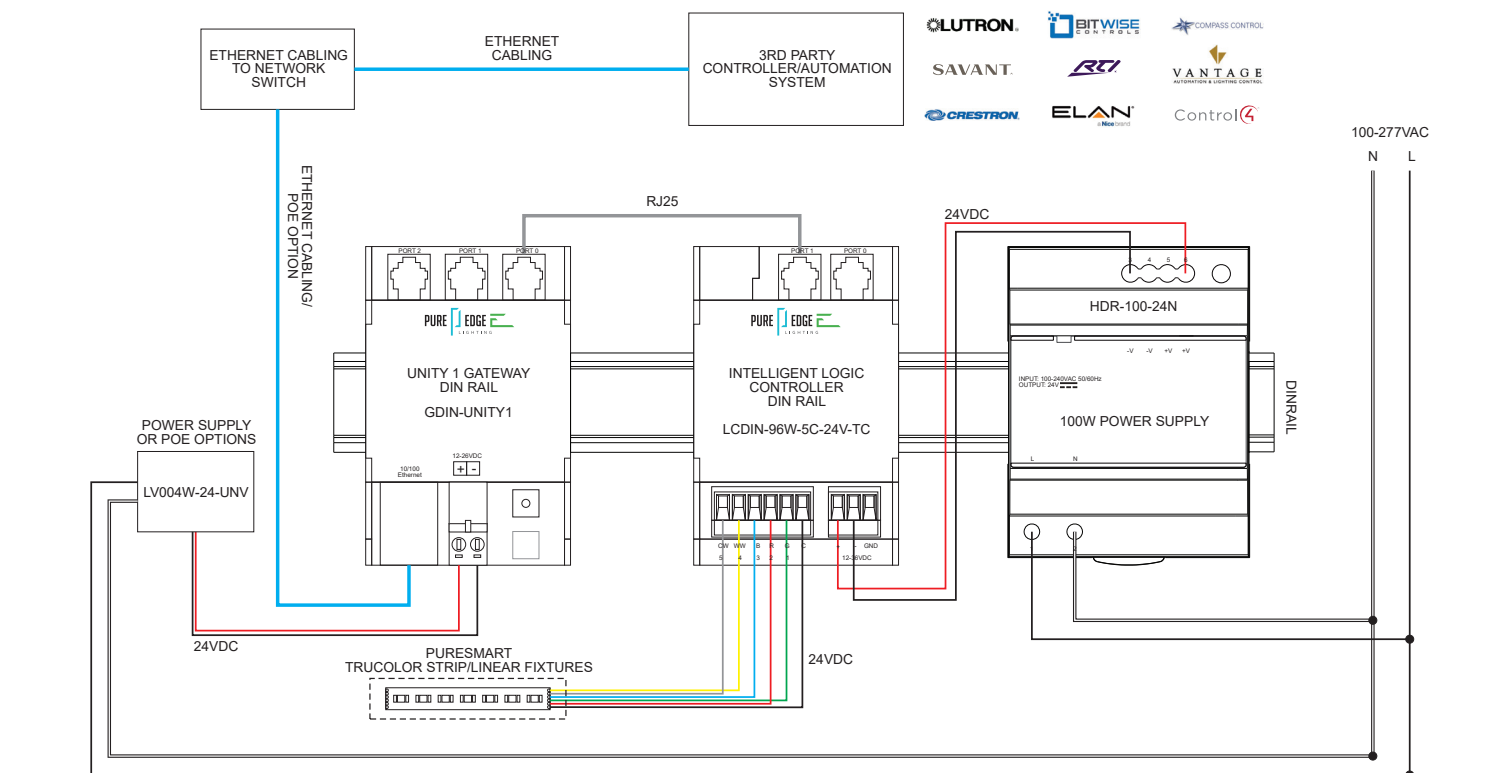
DIN RAIL POWER SUPPLY

The HDR-100-24N is a compact 100W DIN Rail power supply. It's adapted to be installed on TS-35/7.5 or TS-35/15 mounting rails. Adopting the full voltage range of 85VAC-264VAC (operational 277VAC condition). The HDR-100-24N is designed with an insulated housing protecting from electrical shock hazards.

Product	Wattage	Voltage
HDR	100	24N
HDR Din Rail Power Supply	100 100 Watts, 4 Amp Max	24N 24 Volts DC

NETWORK TOPOLOGY & WIRING DIAGRAMS

Single Bridge Box Application with GDIN-UNITY1



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