Catalog Number: | Date: | Project:

OVERVIEW

The nLight® Snapshot (nPWDMX) is an nLight DMX Snapshot Controller, powered by Pathway™, that enables bi-directional communication between a DMX512 lighting system and a wired nLight® network. The nLight Snapshot creates a single solution for controlling DMX and nLight Wired devices by allowing nLight wall switches, sensors, and nLight® ECLYPSE™ system controllers to control theatrical DMX lights while also enabling any DMX theatrical console to trigger scenes and broadcast levels to nLight channels. The device offers a toolset of software solutions for ease of configuration and settings, including Pathscape™ and SensorView.

FEATURES

- Converts DMX512 to nLight protocol, or vice versa
- Consumes 17 nLight device addresses
  - 16 outputs and 1 input (composed of 16 scenes and 16 virtual switches)
- Supplies 40mA of nLight Bus Power per RJ-45 port
- Equipped with two DMX512 ports, individually configurable as In or Out/Thru
- Supports triggering up to sixteen (16) 4-universe snapshots
- Compatible with Pathway Vignette wall stations (PWWSI) and systems
- Includes a dry Contact Closure Input for direct control of a single nLight channel or scene
- Sends and receives sACN on Ethernet port and merge with snapshots or build priority rules
- Simultaneously and in real-time, map up to eight theatrical DMX control sources for merging to each output slot
- Acts as an E1.20 RDM controller, when used with free Pathscape configuration software
- User-configurable DMX output speed and signal loss behavior
- Supports the following DMX-over-Ethernet protocols:
  - Pathway Secure sACN
  - E1.31 streaming ACN (sACN)
- Easy to integrate into the nLight Eclypse which provides site-wide lighting control through nLight's SensorView software and further BMS integration

Warranty
Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice

Pathway Connectivity Solutions is your dynamic DMX lighting network backbone for projects that include RGBX or entertainment lighting. Our Portfolio includes DMX Lighting Network Switches, Splitters, Gateways, and Controls.

nPWDMX SNAPSHOT
nLight® DMX512 and sACN Controller

Model #: nPWDMX SNAPSHOT DIN

Model #: nPWDMX SNAPSHOT ENCSML

Powered by Pathway™

ORDERING INFORMATION

		Example: nPWDMX SNAPSHOT DIN
nPWDMX SNAPSHOT		
Series		**Mounting**
nPWDMX SNAPSHOT	nLight Snapshot Controller	DIN DIN-Mount (6.25"). No enclosure and no Power Supply
		ENCSML[1] Panel assembly including a NEMA Type 1 metal enclosure, with a 50 Watts power supply

1. **NOTE:** For additional panel assembly options refer to the PWSA Pathway System Assemblies spec sheet or the Pathway System Assembly Tool.

ACCESSORIES

Series	Description
PWINS XLR5M IDC5 [SS/BL/WH]	Insert, XLR 5-Pin Male, 5-Pin Insulation Displacement Contact Connector [Stainless Steel/Black/White]
PWINS XLR5F IDC5 [SS/BL/WH]	Insert, XLR 5-Pin Female, 5-Pin Insulation Displacement Contact Connector [Stainless Steel/Black/White]
PWINS XLR5M CSC5 [SS/BL/WH]	Insert, XLR 5-Pin Male, 5-Pin Compression Screw Connector [Stainless Steel/Black/White]
PWINS XLR5F CSC5 [SS/BL/WH]	Insert, XLR 5-Pin Female, 5-Pin Compression Screw Connector [Stainless Steel/Black/White]
PWINS RJ45EC PD [SS/BL/WH]	Insert, RJ45 EtherCON, Punch Down [Stainless Steel/Black/White]
PWINS RJ45EC RJ45R [SS/BL/WH]	Insert, RJ45 EtherCON, RJ45 Female (Rear) [Stainless Steel/Black/White]
PWCON SPARE IDC3 Q4	Connector, Spare, 3-Pin Insulation Displacement Contact Connector (Qty 4)
PWCON SPARE CSC3 Q4	Connector, Spare, 3-Pin Compression Screw Connector (Qty 4)

SPECIFICATIONS

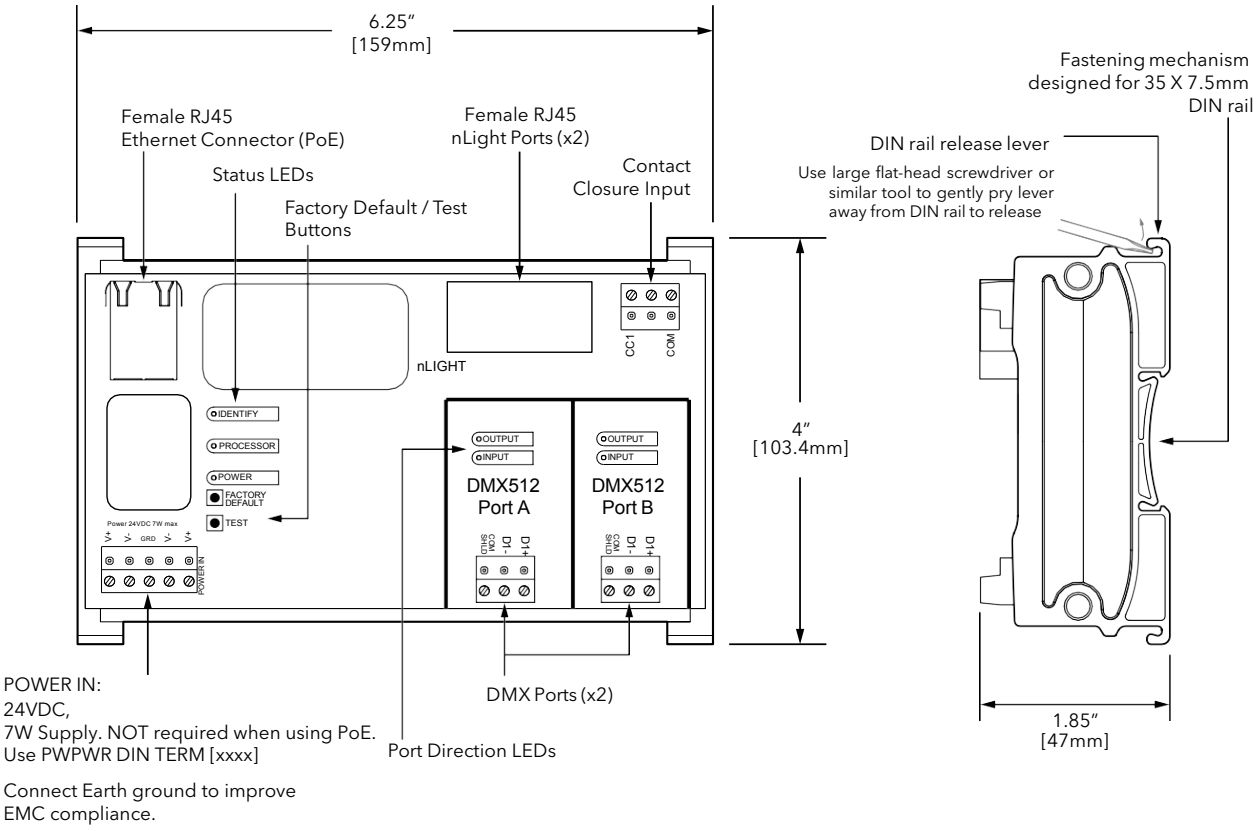
Electrical	**Input Ratings**	**nPWDMX SNAPSHOT DIN [Card Only]** PoE Class 2 Device 24VDC power input (not used if using PoE) 7W maximum power consumption **nPWDMX SNAPSHOT ENCSML** 120-277VAC, 50/60Hz wide-range power input 50W maximum power consumption
	nLight Output Ratings	16-24VDC, 40mA per RJ-45 Port (80mA total)
	Regulatory Compliance	**nPWDMX SNAPSHOT ENCSML** UL508A
Mechanical	**Dimensions**	**nPWDMX SNAPSHOT DIN [Card Only]** 6.25" W x 4"H x 1.85"D (159mm W x 103mm H x 47mm D) **nPWDMX SNAPSHOT ENCSML** 10" W x 13" H x 4.5" D (260mm W x 330mm H x 114mm D)
	Mounting Interface	**nPWDMX SNAPSHOT DIN [Card Only]** 35mm x 7.5mm DIN rail
	Weight	**nPWDMX SNAPSHOT DIN [Card Only]** 0.47 lbs (0.21 kg) **nPWDMX SNAPSHOT ENCSML** 9.6 lbs (4.35 kg)
	Connection Type	RJ-45 nLight Network Ports (2) DMX512 Ports (2) Dry Contact Closure Input (1) Ethernet Port - 10/100 Mbps Ethernet network port (PoE) (1)
Environmental	**Warrantied Operating Temperature**	32°F to 113°F (0°C to 45°C)
	Relative Humidity	5-95%, non-condensing
	Standards/ Ratings	RoHS 2011/65/EU + A1 2015/863
Compliance	**Regulatory**	FCC ANSI E1.11 DMX512-A R2013 ANSI E1.20 RDM[1] - Remote Device Management ANSI E1.31 sACN-Streaming ACN ANSI E1.33 RDMnet IEEE 802.3af Power-over-Ethernet California Title 1.81.26, Security of Connected Devices Notes 1. Ports configured as outputs are RDM Controllers when used with Pathscape or E1.33 RDMnet. RDM cannot pass from an input port to an output port.
General	**Standards/ Ratings**	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC

nLIGHT WIRING GUIDE
DO terminate cables according to T568B.
DO make sure crimps are deep, straight and that the blades penetrate the conductors evenly for proper contact.
DO use a remote cable tester to verify each CAT-5e cable.
DO NOT use cables with strain-relief boots at connectors. Some nLight devices have limited cabling space that does not allow for boots.
DO protect CAT-5e connectors (bag and tie) and cover open ports if construction is ongoing and connections cannot be completed.
DO NOT use tape on connectors residue from tape will cause poor connections.

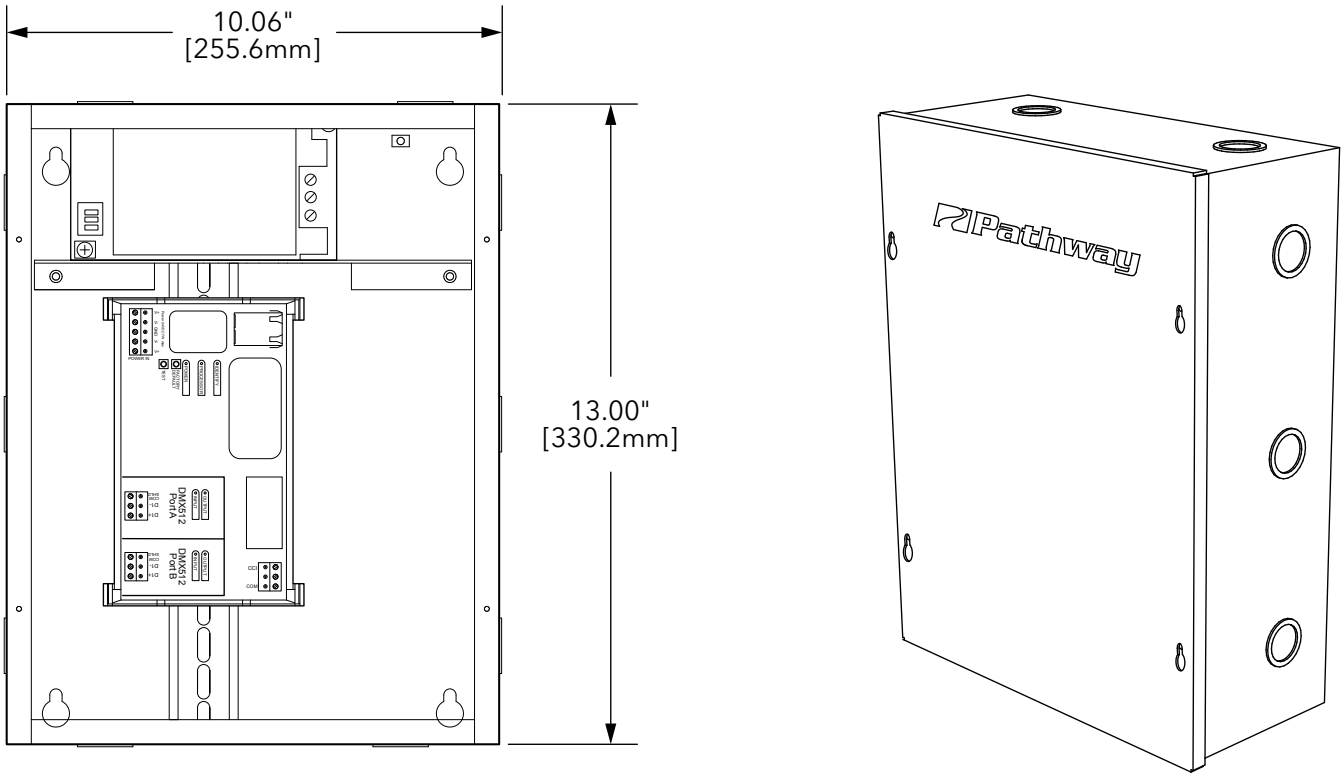
DMX512 / RDM PINOUT		
Purpose	**XLR / Terminal Block Pin #**	**RJ45 PIN # and Wire Color**
Shield / Common	1	7 - White / Brown
Data - (complement)	2	2 - Orange
Data + (true)	3	1 - White / Orange

DIMENSIONS

nPWDMX SNAPSHOT DIN



nPWDMX SNAPSHOT ENCSML



TYPICAL APPLICATION