

dmXLAN node8

10-port DMX Ethernet node

Users Manual

Software version 1.0



Front Panel



The front panel has a graphic LC-display, 3 keys and a jog-encoder with push function and 4 LEDs.

Connections at the back

The dmXLAN node8 has many connectivity options. Viewed at the back from left to right:

RS-232 (top SUB-D 9pin)

<i>Pin</i>	<i>Description</i>
1	-
2	TX
3	RX
4	-
5	Ground
6-9	-

To connect the RS-232 port to a PC you'll need a 1 to 1 male/female sub-d 9pin cable. (NO null-modem / cross cable)

Contact Closure Inputs (bottom SUB-D 9pin)

<i>Pin</i>	<i>Description</i>
1	Ground / Shield
2	Input 1
3	Input 2
4	Input 3
5	Input 4
6-9	Ground

This inputs have an internal pull-up resistor. A simple switch can be connected between the input pin and a ground pin. The contact inputs can be used to temporarily recall a patch setting.

MIDI Out / MIDI In

Midi connection uses standard MIDI pinout.

Network 10/100 MBit Ethernet (on Neutrik Ethercon)

The network connection uses a standard UTP network connection.

USB 2.0 Full-speed

The USB connection uses standard USB pinout.

DMX port 1 - 8

<i>Pin</i>	<i>Description</i>
1	Ground/Screen
2	Data -
3	Data +
4	-
5	-

The DMX ports 1 to 8 are bidirectional(via programmable setup), have an internal terminator resistor and are RDM prepared.

DMX port 9 and 10

<i>Pin</i>	<i>Description</i>
1	Ground/Screen
2	Data -
3	Data +
4	-
5	-

DMX ports 9 and 10 are fixed DMX inputs and have a fixed internal terminator.

There are 2 versions of node8 available, the normal and the Full Isolated (FI). The full isolated version has an optical/galvanic isolation barrier (up to 1500V).

This product may only be used for controlling dimmers and moving lights. Using the product out of these specifications will remove all responsibility from the supplier

Operation

The dmXLAN node8 can be programmed in 2 ways.
Either through the front panel control or the dmXLAN control software.

The dmXLAN control software has to be software version 3.0 or up.
The software can be downloaded from www.elclighting.com

Control through front panel.

Main Display



- A Select config menu, to recall 1 of 4 previously saved configurations (patches)
- B no function
- ← (Setup) Enter setup menu
- Encoder +/- Select information displays

Information displays

DMX port status



- x → port does not receive data (or DMX when input)
- v → port receives data (or DMX when input)

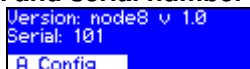
ID setting



IP address

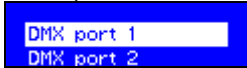


Version and serial number



Setup menu

Enter the setup menu from the main screen by pressing ←



By using the encoder select the item you would like to adjust.

Options:

- Edit DMX port 1 to 8 or DMX input 9 and 10
- Set the ID
- Rename the current configuration
- Change network settings (ip address and netmask)

Edit the item by pressing A or the encoder.

All settings will be stored AFTER exiting the setup menu via the ← key, a message will appear.

Edit DMX ports 1 to 8 or DMX input 9 and 10



Use the encoder to change the current selected option and press the encoder to select the next option.

Press A to store the configuration

Press B to set the DMX port to it's default value

Press ← to cancel any changes

DMX port as output

When a port is set up as a DMX output, then you can select the working mode of that port. Modes are:

- disabled → the DMX output is disabled
- outzero → the DMX sends out a DMX test signal with all channels at 0%
- single → the output sends out the DMX values of the selected (primary) ArtNet universe. The DMX output is enabled the first time it detects the DMX universe on the network (or internal DMX inputs). If the universe on the network fails, the DMX output will go into DMX hold.

- dual HTP → like single, but merge two DMX universes (primary and secondary) in highest take precedence.
- dual LTP → like dual LTP, like dual HTP but in latest takes precedence (on a channel by channel basis)

DMX port as input

When a port is set up as a DMX input, it can be operation in the following modes.

- disabled → the DMX input does nothing
- normal → any valid DMX is sent onto the network (and internal use) using the selected universe (ArtNet)
- backup → the DMX input will not send data if the selected universe is present on the network. If the selected universe is not present on the network for several seconds and the input has valid DMX, then it will send DMX data. If another sender starts sending the same universe, the input will go back input backup mode.

Please note. DMX input 9 and 10 are always fixed to work as input.

Set ID



Used the encoder to change the current selected digit, and press the encoder to select the next digit. The digits are in hexadecimal (16 possibilities 0-9, A-F). This means you can have upto 4095 different ID's in the system (ID 000 means that the ID is not used ---).

Press A to store

Press B to disable (---)

Press ← to cancel the operation

Rename current configuration



The name of the current configuration is presented in the Main display and in the dmXLAN software. The name is also used to indicate the configuration setting when it is stored in one of the 4 built in configurations.

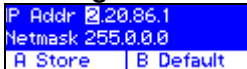
Use the encoder to change the current character, and press the encoder to select the next.

Press A to store the name

Press B to select the next character

Press ← to cancel the operation

Network settings



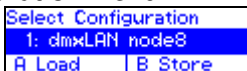
Use the encoder to change the current parameter, and press to select the next.

Press A to store the configuration

Press B to select the factory default IP address and netmask

Press ← to cancel the operation

Configuration Menu



From the main display press A (config).

Now you can either recall a previous setup or store the current one in one of the 4 options.

Use the encoder to select a setup

Press A to load the selected configuration

Press B to store the current configuration

Press ← to cancel the operation

The 4 contact closures on the back can be used to temporarily recall any of the 4 setups. The configuration is loaded closing the contact and the normal

configuration is loaded when the contact is opened. Contact closure 4 has the highest priority.

General Information

CE – Product

The dmXLAN node8 permits to the CE requirements set up by the European Community. This can be recognized by this label on the outside of the product.



Technical Specifications:

Power:	85-264 VAC 47-440 Hz 10VA max
Dimensions	19" 1HE rack unit 483 x 44 x 150 mm
Weight	2kg

Designed and manufactured in the Netherlands by:

ELC lighting

Support contact: support@elclighting.com

Distributed by:



Worldwide distribution:

ANIMA lighting Ltd
Route du Stand 20
CH-1897 Le Bouveret
Switzerland
T +41 79 210 4613
F+4186 079 210 4613
Email: sales@elclighting.com
URL: www.elclighting.com