

e-Node/dmx[™] Quick Reference Installation Guide

The Converging Systems e-Node™/dmx is a network color computer enabling up to 32 DMX fixtures to be controlled from third-party automation and lighting systems. The e-Node Pilot application is used to set various setup and addressing parameters to map Converging Systems' Zone/Group/Node (Z/G/N) addresses to a specific DMX fixture type and fixture address (1-512) within a single DMX universe. For each additional 32 DMX Fixtures added to the system, a single additional e-Node/dmx is required. Where ILC-x00 family of lighting controllers and compatible FLLA flexible linear lighting arrays are desired to be integrated, consult the ILC-x00 Quick Start Guide. *Full Installation Manuals are available for ILC-xxx family controllers, the e-Node, e-Node/dmx at <u>www.convergingsystems.com/</u>customerportal/1000/installation.htm*



<u>e-Node/dmx to Network connections</u>. Interconnect the e-Node/dmx to your network switch using standard CAT5 or better cabling. The maximum distance from the switch to the e-Node is 100m (328ft). The e-Node requires external power and is not POE compatible.

<u>e-Node/dmx power connection.</u> Connect the e-Node/dmx to an available DC power source (12v-24vdc 300 ma) using two-conductor cabling (22 awg or larger). Pay attention to the polarity markings on the e-Node. If you have obtained the optional e-Node DC power supply, simply plug in the supplied two-pin connector into the e-Node.



DMX Fixture wiring. Port 2 on the e-Node is used for data connection to the first DMX fixtures. Additional fixtures should be daisy-chained to the first fixture (max 32 fixtures on chain). Consult the table below for creating your own RJ-45 to DMX Fixture cable (cable not supplied).

Pin 1 RJ-4	15 Pin <mark>2</mark>
FIIIZ RJ-4	15 Pin 1
Pin 7 RJ-4	15 Pin 7
wiring N/C	
	Pin 7 RJ-4 wiring N/C







Assign Z/G/N Address. Enter a discrete Zone/Group/Node address for each DMX Controller identified within the Step 5. For more information on addressing, review the Instruction Manual or applicable Integration Note.

The factory default for the first DMX Controller is 2.1.1. The second DMX controller is set to **2.2.1.** You may change these as appropriate. Standard feedback (if **NOTIFY** is Enabled-see Step 8) will occur from any unit whose address exactly matches the output command (i.e. 2.1.1 will respond to a command given to 2.1.1).

Wildcard Addresses, Within your control system, if you select an address with a "0" in one of the Z/G/N fields, all fixtures with the other two Z/G/N fields identical will operate as a group. When a wildcard "0" is issued in a command (i.e. 2.1.0), feedback will occur but only from a unit present with a "1" in the wildcard field (i.e. 2.1.1).

Note: Enter the Zone/Group/Node address separated by **PERIODs** and hit **ENTER**. When the field turns **BLUE** you know the data has been successfully entered.

directional communication such that a control system with
compatible sliders can show feedback when there are changes in
DMX fixtures' color state (i.e. colors or fade levels) a setting has to be
made. Here, after Devices have been discovered under the
View/Map menu and for each DMX Fixture where bi-directional
control is desired, under the LED tab set the NOTIFY Flag to either
COLOR (for the HSV or H ue, S aturation, V alue color space) or to
VALUE (for the old-school Red, Green, Blue color space—old school
because there is no dimmer in this color space). If you want to have
both sets of sliders (not really recommended in larger systems where
bus traffic may become excessive), set the flag to BOTH .

Test. Launch the Virtual Keypad/Lighting with the Pilot application and test by entering an appropriate (Z/G/N) address and adjust sliders. Connected DMX devices should react as adjustments are made

🔏 e-Node PILOT		85KP 21104		
File Interface Logging	View Help	2.1.0 Address	PADE	
	Traffic		SATURATION	0%
CS network	Project	Ovenet. Toober	NID	~
2 UID 51	Map	01 OF	GAEEN	
	e-Nodes	-	and a	-
	Trace			
	Network		0	0%
	Virtual Keypad	Shee	D	2000

Important Safety Information

The e-Node/dmx Controller utilizes UL Listed components. The Unit also has been tested under FCC for Home or Office use.

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GENERAL PRODUCT WARRANTY

Each CSI product, except as otherwise provided herein, will be free from defects in materials and workmanship for a period of one (1) year from the date of delivery to the end-user.

ILLUMINAIRE WARRANTY

Each CSI FLLA luminaire product will be free from defects in materials and workmanship for a period of three (3) years from the date of delivery to the end-user including coverage of the following performance criteria:

- LED Light Output will be maintained above 50% of initial output
- Tri-colored (RGB) output will consist of all three color components (red, green, and blue)
- Quad-channel (RGBW) output will consist of three color components (red, green, and blue) and white. Monochrome output will consist of a single color output (white)

Additional Terms and Conditions and exclusions are available on the Converging Systems website

¹The e-Node/dmx is equipped with dual functionality—standard DMX compatibility as well as CS-Bus compatibility (for ILC-x00 and FLLA LED applications)