

## Sixteen Output Ethernet to DMX Interface

model: NODE16-DIN

technical data sheet



The NODE16-DIN is a DIN-rail mounted Ethernet to DMX bridging device. It accepts Artistic License's Art-Net or Streaming ACN (ANSI E1.31) protocols. There are sixteen DMX512 outputs, and each of the outputs are isolated from the Ethernet input. The Ethernet input connection is made via an RJ45 connector, and the DMX512 output connections are made via pluggable Phoenix terminal blocks. The NODE16-DIN supports Power over Ethernet (PoE – 802.3af) or a 24-48VDC power input. NODE configuration takes place with a backlit graphical LCD and an encoder wheel.

### DMX PORT SPECIFICATIONS

Port circuit: Protected EIA-485 receiver (LT1785)

NOTE: This product uses slew-rate-limited output drivers. Slew-rate-limited drivers minimize EMI and reduce reflections.

Output signal: 1.5 Volts (minimum) into 120 Ohm Termination

Connectors: Four 12-position pluggable Phoenix terminal blocks

Port protection: +60V continuous, +15KV transient

Isolation: Optically isolated to 1,500 Volts from the input. The outputs are not isolated from each other.

### ETHERNET SPECIFICATIONS

Input circuit: 802.3 Ethernet compliant input (LAN8720)

Input signal: Art-Net or sACN (ANSI E1.31) Ethernet protocols

Input connector: Ethernet RJ-45 with 802.3af PoE (Power over Ethernet) capabilities.

MDIX: Auto-negotiated

### MAIN SPECIFICATIONS

Power input: 802.3af PoE (Power over Ethernet) or Auxiliary 24-48VDC 500mA via a 2-position pluggable Phoenix terminal block

Indicators: Red POWER indicator

16 Green MIMIC 1 indicators mimic the level of the first channel on each output (useful in troubleshooting)

16 Green SIGNAL indicators illuminate when DMX output signal is present on each port

### Doug Fleenor Design, Inc.

396 Corbett Canyon Road

Arroyo Grande, CA 93420

(805) 481-9599 voice and FAX

(888) 4-DMX512 toll free (888) 436-9512

web site: <http://www.dfd.com>

e-mail: [info@dfd.com](mailto:info@dfd.com)



# DOUG FLEENOR DESIGN

## MAIN SPECIFICATIONS (Continued)

Configuration:	Backlit graphical LCD and an encoder wheel.
Option jumpers:	JP1: Disables the encoder wheel from being able to adjust the configuration settings JP2 – JP5: Not used
Environmental:	0-40 °C (32-104 °F); 10-90% humidity, non-condensing
Cooling:	Convection cooling, no fan required
Color:	Green circuit board, black DIN tray
Size and weight:	2.75"H × 4.25"D × 9.375"W, 1 pound

## LIMITED MANUFACTURER'S WARRANTY

Products manufactured by Doug Fleenor Design (DFD) carry a five-year parts and labor warranty against manufacturing defects. It is the customer's responsibility to return the product to DFD at the customer's expense. If covered under warranty, DFD will repair the unit and pay for return ground shipping. If a trip is necessary to the customer's site to solve a problem, the expenses of the trip must be paid by the customer.

This warranty covers manufacturing defects. It does not cover damage due to abuse, misuse, negligence, accident, alteration, or repair by other than by Doug Fleenor Design.

Most non-warranty repairs are made for a fixed \$50.00 fee, plus shipping.

### Doug Fleenor Design, Inc.

396 Corbett Canyon Road  
Arroyo Grande, CA 93420  
(805) 481-9599 voice and FAX  
(888) 4-DMX512 toll free (888) 436-9512  
web site: <http://www.dfd.com>  
e-mail: [info@dfd.com](mailto:info@dfd.com)

