

Datasheet DMX Bridge

Colour
is our nature

Analog Dimmer to DMX Bridge

DMX Bridge

The DMX bridge can be used to integrate analog DC dimmer signals into the LedSync or DMX Network. Using a digital network like LedSync provides a highly reliable network on long cable distances.

These DMX bridges are ideal for retrofitting existing lighting installations. The PRO versions offer parameter settings for maximum flexibility and optimal system integration.

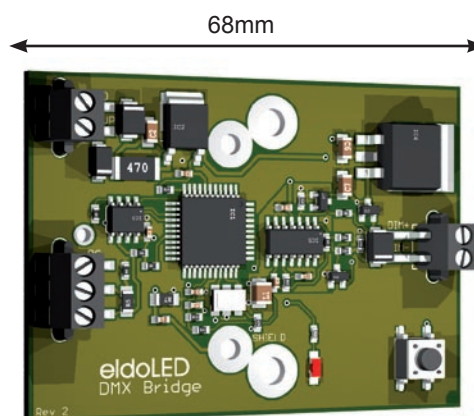
The DMX Bridge comes in a 1 zone (1x 512 channels) and a 5 zone (5x512 channel) version.

PRO Version

Not all dimmers available in the market give an identical dimming output. Therefore the PRO versions support an easy to use calibration of the dimming values. During calibration the minimum and maximum output values can be set, so the dimmer will always be able to fully dim the connected fixtures.

Analog Input 0..10V

Additional to the dimmer connection the 5 channel Bridge also supports a 0..10V input signal. This input signal can be generated by a building automation system or light controller and be used to set the output of the connected fixtures.

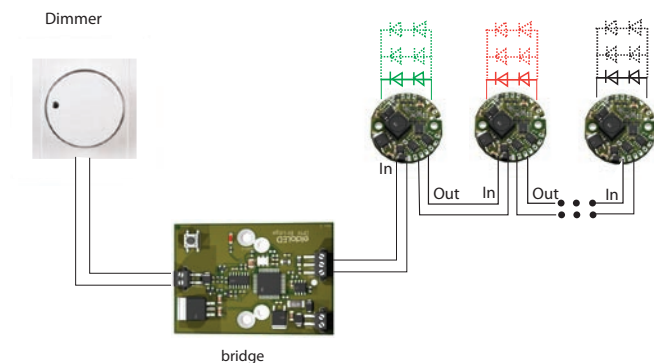


Features

- Easy solution for LED dimming in existing applications.
- Easy connection by screw connectors
- 12V-28V supply range
- LedSync and DMX output
- 0..10V interface (5 DMX Bridge only)

Advantages

- DC Dimmer conversion to LedSync or DMX512
- Accurate LED dimming solution
- Easy network setup
- Simplifies total system solution



principle schematic of dimmer wiring

Datasheet DMX Bridge

Dynamic Effects

Control channel 1-512: 0-100%

Thermal

Cooling: Passive;

Maximum ambient temperature: 60°C

Minimum ambient temperature: 0°C

Network Control (1 Bridge)

Output Protocol: LedSync or

USITT DMX-512A

Output network: RS485

Network channels: 512

Communication: bi-directional for
configuration or reading sensor values

Network Control (5 Bridge)

Output Protocol: LedSync or

USITT DMX-512A

Output network: RS485

Network channels: 5x 512

Communication: bi-directional for
configuration or reading sensor values

Electrical

Power: 12V - 28V DC

Reverse polarity power protection

Processor: eldoLab BridgeLogic 400
series

Connections (1 Bridge)

Power connection: Screw (2x)

Data connection : Screw (3x)

Dimmer input: Screw (2x)

Connections (5 Bridge)

Power connection: Screw (2x)

Data connection : 5x Screw (3x)

Dimmer input: Screw (2x)

Analog input: Screw (3x)

Miscellaneous

Orientation: Any

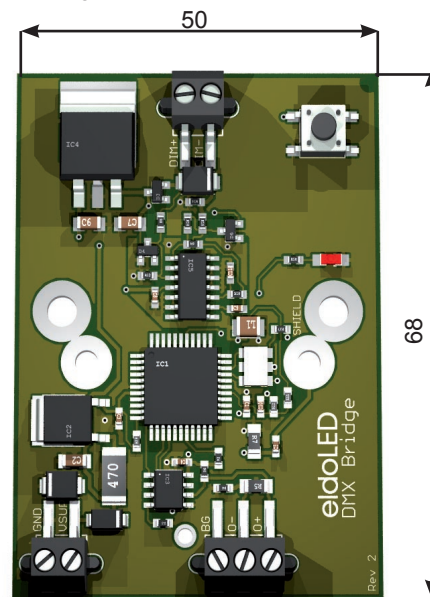
Relative Humidity: Non-Condensing

Storage ambient Temperature:

-40°C to 95°C

Mechanical Dimensions

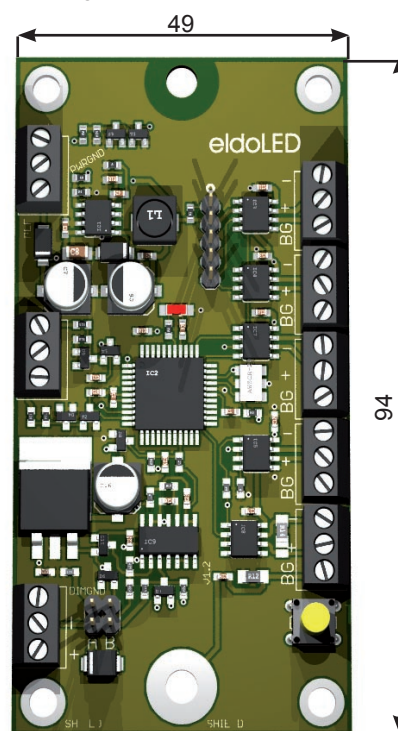
(1 Bridge)



Note: All dimensions are in millimeters

Mechanical Dimensions

(5 Bridge)



Note: All dimensions are in millimeters

Ordering information

Description	Product	Ordernr	Qty
DMX bridge 0..10V to 1xDMX512	DMX Bridge	BDA10101	10
DMX bridge Pro 0..10V to 1xDMX512	DMX Bridge PRO	BDA10501	10
5 DMX bridge Pro 0..10V to 5xDMX512	5 DMX Bridge PRO	BDA50501	10

For special form factors, connectors or other customised solutions, please contact our OEM support desk.

More information, application notes and user manuals available at www.eldoled.com

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