eldoLED

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**Datasheet V-Strip Network** **V - Series**


# 8A Voltage Controlled RGB(W) LED Driver

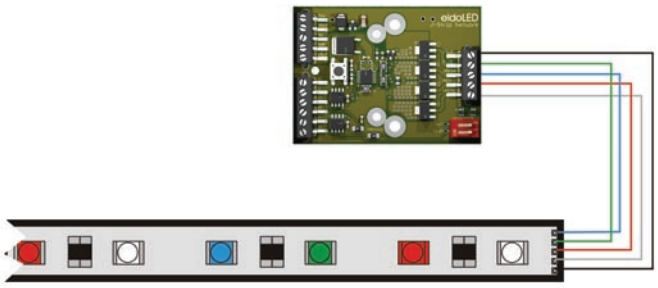
### V-Series Description

The V-Series is a cost effective solution for integrated drive and control of direct voltage controlled LED strings.

### V-Strip

The V-Strip Network product range is the ideal choice for powering all type of low power LED packages and LED arrays, especially where cost-effective colour mixing is needed. The V-Strip is available in Standalone, Network and Power versions.

With its true 15 bit resolution per output channel the V-Strip is capable of accurate dimming and extremely fine colour mixing.



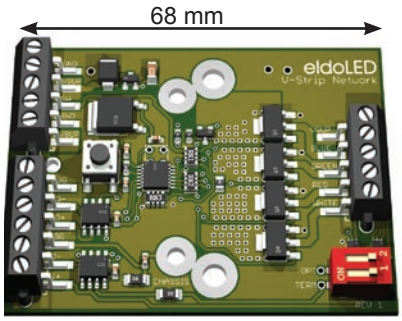
Principle schematic of LED group wiring

### Network version (LedSync)

The LedSync network interface allows for high resolution quick setup and lower cabeling costs compared to other networking solutions. The V-Strip Network range also accepts standard DMX as input protocol. For stand-alone applications one of 10 pre-defined shows can be selected.

### ShowMaster

The “ShowMaster” version of the V-Strip supports custom design of scenes and shows that can be uploaded via the LedSync network and broadcasted to all connected V-Series LedSync and L-Series Devices.




### Features

RGB(W) colour mixing driver
Up to 8A power output
Small size (68x50mm)
Long life (5 years)
12V - 28V supply range
LedSync and DMX compatible
High-resolution colour mixing with HydraDrive Algorithm Based Modulation (Proprietary Technology)
Optional DIN-Rail(EN50022) mounting set available

### Advantages

Integration of Drive & Control (no external boxes)
Smooth colour control
Cost efficient
Accurate dimming solution
Drive & Control per fixture
Easy network setup

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### Output
Output current: up to 8A LED current (2000mA per channel)
Power output range: 0 - 200W
Nr of independent LED groups: 4

### Dynamic Effects
Hydra Drive Algorithm Based Modulation
Control channel 1 (R): 0-100%
Control channel 2 (G): 0-100%
Control channel 3 (B): 0-100%
Control channel 4 (W): 0-100%
Resolution: 15 Bit
Contrast ratio: 2000:1

### Thermal
Cooling: Passive
Maximum ambient temperature: 60°C
Minimum ambient temperature: 0°C

### Network Control
Input Protocol: LedSync / USITT DMX-512A
Output Protocol: LedSync
Input/output network: RS485
Update rate: 8ms
Network channels: 4
Network resolution: 8 or 16 bit
Communication: bi-directional for configuration or reading sensor values

### Control and Programming
LedSync Address setting: Auto-addressing or via programmer
Standalone features: 10 standard shows or 10 factory set custom shows, or (ShowMaster versions) 20 customer designed and uploaded shows.
Show selection: Via external switch

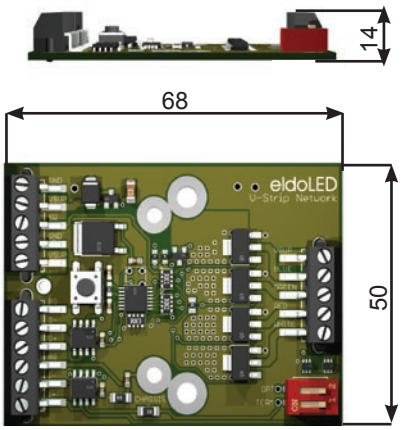
### Show Programming (ShowMaster Versions)
Max nr of shows: 20
Max nr of scenes: 50
Show upload: Via LedSync

### Electrical
Power: 12V - 28 V DC
Reverse polarity protection power supply
Processor: eldolab FluxLogic 800 series

### Connections
Power connection: Screw fitting (4x)
LED connection: Screw fitting (5x)
Data connection: Screw fitting (6x)
External switch: Screw fitting (1x)
Network terminator: (Jumper)

### Miscellaneous
Orientation: Any
Mounting: Mounting hole for using common M3 screw (2x), M4 screw (2x)
DIN-Rail EN50022 Form factor
Relative Humidity: Non Condensing
Storage ambient Temperature: -40°C to 95°C

### M




Note: all dimensions are in millimeters

### Ordering information

| Description | Product | Ordernr | Qty |
|---|---|---|---|
| V-Strip Network 4 channel | V-Strip/N 4040 | VSN40401 | 50 |
| V-Strip Network 4 channel, ShowMaster | V-Strip/N 4045 | VSN40451 | 50 |
| (Optional) DIN rail clip with alu spacer | DIN rail clip | DRC10101 | 50 |

The V-Strip is also available in a High Power (32A) version. For details please see the V-strip High Power datasheet. 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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