



MADRIX NEBULA

The versatile LED pixel-tape driver to directly control a wide range of digital LEDs.

SKU: ENV-NEBULA

Product Data

Supply of Power:	DC 5 V – 24 V; over A) 2-pin, pluggable screw terminal (12 A max.), B) 5 V USB, C) Port 1 or 2 sourced from LEDs; 6 A max. load per port when supplying through to LEDs
Power Consumption:	< 1.5 W (300 mA) during normal operation (500 mA max. fused)
BTU/h:	5.73 during normal operation
Network Protocols:	Art-Net (I, II, 3, 4 incl ArtSync), Streaming ACN (sACN / ANSI E1.31)
Ports:	2x ports (Via 2x 4-pin, pluggable screw terminals)
Data Output:	Firmware ≤ 5.XX: 8x 512 channels SPI TTL (Max. output per port: 680 RGB LEDs / 512 RGBW LEDs / 2,048 1-channel LEDs) Firmware ≥ 6.00: 12x 512 channels SPI TTL (Max. output per port: 1,024 RGB LEDs / 768 RGBW LEDs / 3,072 1-channel LEDs)
Ethernet:	2x RJ45, Auto MDI-X, daisy-chain support, 10/100 Mbit/s (Compatible with 1 GBit/s)
Ethernet Switch:	Lookup Table (ALU) for 1,024 unicast MAC addresses
USB:	1x port, USB 2.0, type-B female socket
Case:	Non-conductive, V-0 flammability rating (UL94 test method), designed for 35 mm DIN-rails or wall mounting
Handling:	5 status LEDs (+ 4 network status LEDs)
Dimensions:	90 mm × 70 mm × 46 mm (3.54" × 2.76" × 1.81") (Length × Width × Height)
Weight:	110 g (0.24 lb) 132 g (0.29 lb) incl. screw terminals and wall mounts
Temperature Range:	-10 °C to 70 °C (14 °F to 158 °F) (Operating) -20 °C to 85 °C (-4 °F to 185 °F) (Storage)
Relative Humidity:	5 % to 80 %, non-condensing (Operating / Storage)
IP Rating:	IP20
Certificates:	CE, EAC, FCC, RoHS
Warranty:	5 years of limited manufacturer's warranty

Package Contents

- 1x MADRIX® ORION
- 1x Set of pluggable screw terminals (2x 6-pin and 1x 2-pin)
- 1x USB 2.0 cable (certified)
- 2x Wall-mount brackets
- 1x Technical manual / quick start guide



5 Year
Warranty

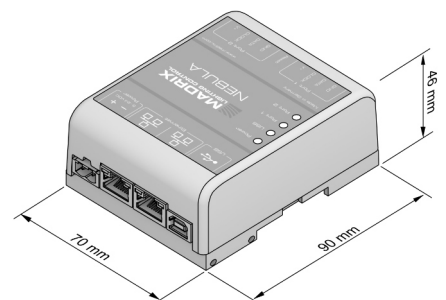
2 Ports

Art-Net/
sACN

IP20

Key Features

- 12 Universes of SPI Output
- Direct SPI Conversion
- Dual Output Ports
- Sync & Daisy-Chain Support



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