MADRIX ORION

Adds a whole new level of interaction and control to your project.

Made in Germany

5 Years of Warranty

Powerful A/D Converter

Easily convert any analog input signal ranging from 0 V – 12 V into an 8-bit or 16-bit digital DMX output signal. Sample incoming signals instantly and map all inputs individually to up to 8 or 16 DMX channels per device.

8 Versatile Inputs

Directly connect to a wide range of compatible sensors, potentiometers, switches, and triggers. Easily create interactive projects using sensors for light, temperature, PIR, and many more.

Direct Connection

2 main 6-pin ports are available with 4 individual pins each as well as GND and V+. Flexibly supply 5 V – 24 V power over the 2-pin screw terminal.

Designed For DIN Rails Or Walls

Its non-conductive enclosure and standardized design for 35 mm top-hat rails make mounting quick, easy, and safe. 2 extra brackets are provided for optional wall mounting. 9 indicators quickly show the device status with the option to turn them off.

Art-Net / Streaming ACN / USB

Send the output signal as Art-Net or Streaming ACN (E1.31) over long or short distances to any compatible software or hardware controller. In addition, simply connect to MADRIX® 5 over USB.

Versatile Output

Different input types allow data to be processed and parameterized differently for the output. Each input can be separately set as Analog-IN, Digital-IN, Counter, and other useful functions.

Daisy-Chain Support

2 Ethernet ports allow for separate network connections as well as linearly daisy-chaining several devices together for better cable management.

Invaluable Features

The device is ready within seconds after startup. Its firmware is upgradable for future enhancements. Access and change specific device settings using the built-in web configuration page.

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

Technical Specifications

Supply Of Power	DC 5 V – 24 V; over **A)** 2-pin, pluggable screw terminal with 500 mA max. load per port when supplying through to the ports, **B)** 5 V USB, **C)** Port 1 or Port 2
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), Streaming ACN (sACN / ANSI E1.31)
Input Signals	Analog 0 V – 12 V (Measurable) / Analog 0 V – 24 V (Permissible)
Ports	2x ports (Via 2x 6-pin pluggable screw terminals)
Input Pins	2x 4 separate pins (8x in total with 72 kΩ input resistance each)
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
Handling	5 status LEDs (+ 4 network status LEDs)
Case	Non-conductive, V-0 flammability rating (UL94 test method), designed for 35 mm DIN-rails or wall mounting
Dimensions	90 mm × 70 mm × 46 mm (3.54″ × 2.76″ × 1.81″) (Length × Width × Height)
Weight	105 g (0.23 lb) | 120 g (0.27 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