ENTTEC

EMU Hardware – Datasheet

ENTTEC's touring-grade USB to DMX/eDMX interface delivers real-time lighting control for EMU software.

AUSTRALIAN DESIGNED + MADE

The ENTTEC EMU Hardware provides a robust and reliable interface for seamless hardware and software integration, making it the perfect partner for ENTTEC's EMU software, especially for lightweight laptops on tours. When combined with compatible ENTTEC lighting controllers, it delivers a comprehensive, all-in-one solution for managing live light shows with precision and ease.

The EMU hardware offers flexible lighting output, supporting full DMX-512 (512 channels) through DMX ports and allowing compatible ENTTEC controllers to manage multi-universe lighting via an RJ45 port, providing versatile configuration options. Real-time control is made easy with footswitch or MIDI triggers, enabling direct control during performances.

Its built-in microprocessor ensures stable DMX frame buffering, operating independently of external computing power for reliable performance even in demanding environments.

With 1500V isolation to protect equipment from surges, the EMU Hardware Interface provides precision, reliability, and safety. — ideal for professionals needing synchronised sound and lighting on the go.

Features

- **Touring-grade hardware interface expertly designed for ENTTEC's EMU Software offering easy-to-use sound-to-light integration.**

- **3-pin/5-pin XLR provide a combined DMX output of 512 channels.**

- **EtherCON RJ45 with DHCP server supporting compatible ENTTEC lighting controllers for multi-universe[1] lighting output.**

- **¼" TRS jack for dual footswitch/MIDI input to control lighting states in EMU Software.**

- **Type-C USB connection to PC for power and data transfer.**

- **Opto-isolation protects your computer from stray voltage or phantom power mistakenly connected to the DMX line.**

- **Convenient mounting holes for secure DIN Clip installation.**

- **Sleek aesthetic status LED customisable for clear visual feedback.**

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[1] Due to continuous innovation and improvements, multi-universe capability may vary depending on the EMU Software version.

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Specification

Connectors	1* USB Type C (Power & Data)
	1* EtherCon RJ45 (Ethernet)
	1* 3-Pin XLR (DMX)
	1* 5-Pin XLR (DMX)
	1* ¼" TRS Jack (Footswitch/MIDI)
IP Rating	IP20
LED Indicator	Illuminated EMU Logo
Power Input	5V DC via USB Type-C
Max. Power Draw	1.38W
Max. Current	0.27A
Device Configuration and Data Input	EMU Software
Network Speed	10/100Base-T
Art-Net Output	EMU Software License
DMX Output	1U (512 Channels) DMX
Max. Refresh Rate	44 frames per second (fps)
Cooling Method	Convection
Environmental Operating Temp.	0°C to 50°C / 32°F to 122°F
Environmental Operating Humidity	5 to 95% (non-condensing)
Body Material	ABS plastic
Mounting Options	TS35 DIN Rail mount
Unit Dimensions	116 x 87 x 52mm
Unit Weight	0.14kg / 0.31lbs
Shipping Dimensions	235 x 160 x 68mm
Shipping Weight	0.28kg / 0.62lbs
Warranty	3 year return to base manufacturer warranty

Certification

Box Contents

- EMU HARDWARE
- 1M USB Type-C Cable
- TS35-DIN mount clip and screws

DMX Connector

Suitable for DMX fixtures with XLR connectors such as dimmer pack, LED spot, scanner, moonflower, moving head or a laser.
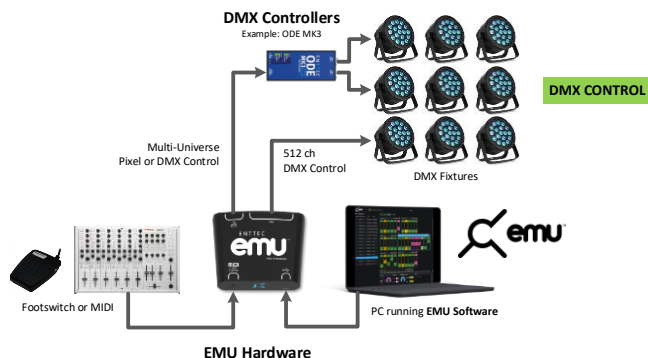
- PIN1: GND (V-)
- Pin 2: Data –
- Pin 3: Data +
- Pin 4: NC (5-pin XLR only)
- Pin 5: NC (5-pin XLR only)

¼" TRS Jack Connector

TRS	Footswitch	MIDI – Type A	MIDI – Type B
Sleeve	GND	Shield	Shield
Ring	Switch B	Source	Sink
Tip	Switch A	Sink	Source

Application Diagram

Safety

- This device is intended for indoor use only. Do not expose to rain or moisture, doing this will void the warranty.
- Make all the connections before you plug in USB power.
- No serviceable parts inside.
- ENTTEC recommend the use of a DMX terminator at the end of the DMX chain.
- A maximum of 32 devices should be used on a DMX line before re-generating the signal using a DMX buffer/ repeater / splitter.

Ordering Information

For further support and to browse ENTTEC's range of products visit the ENTTEC website.

Item	SKU
EMU Hardware	70681

enttec.com

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Due to constant innovation, information within this document is subject to change.