



# DMXking eDMX1 MAX Ethernet DMX Adapter User Manual

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**DMXking eDMX1 MAX Ethernet DMX Adapter**



## INTRODUCTION

Thanks for purchasing a DMXking product. Our aim is to bring you high quality products with great features we know you'll appreciate. DMXking MAX series devices are Art-Net and sACN/E1.31 protocol compatible and designed for use with computer-based show control software or expansion of lighting console outputs. There are many free and commercial software packages available. <http://dmxking.com/control-software>

## HARDWARE AND FIRMWARE VERSIONS

From time to time minor hardware changes occur in our products usually small feature additions or unseen optimizations. The table below lists eDMX1 MAX product variants. Check the product label for P/N details.

Part Number	Feature addition
0132-1.1-3/5	Initial product release

Firmware updates are released on a semi-regular basis. We recommend updating to the latest available firmware version so all product features are available. Please take note the user manual reflects latest firmware version features unless otherwise noted.

Firmware Version	Comments
V4.1	Initial release. RDM support disabled.
V4.2	DMX-IN recording issue fix. ArtNet subnet broadcast traffic issue fix – resolves problem with being unable to scan for (L)eDMX MAX units.
V4.3	Initial release with USB DMX support.
V4.5	Extensions to DMXking USB DMX protocol. Required update for USB DMX functionality.

## MAIN FEATURES

- Power from USB-C
- Tough aluminum enclosure
- Static or DHCP IPv4 network addressing
- USB DMX functionality in addition to Network ArtNet/sACN
- Supported operating systems: Windows, MacOS, Linux, iOS, Android
- eDMX1 MAX – 1x DMX512 Out or DMX512 In with Art-Net, sACN E1.31 and E1.20 RDM support
- Art-Net broadcast, Art-Net II,3 & 4 unicast, sACN/E1.31 Multicast and sACN Unicast support
- Merge 2 incoming Art-Net/sACN/USBDMX streams per output channel with both HTP and LTP options
- sACN Priority takeover for multi-tier controller arrangements
- Mix and match ArtNet/USBDMX with sACN merge/priority sources
- DMX-IN and DMX-OUT channel offset re-mapping
- User configuration of Art-Net Node short and long names
- Fully compatible with all software and hardware that supports Art-Net I, II, 3 & 4 and sACN protocols
- Works with your existing console if Art-Net or sACN external nodes are supported
- Universe Sync Art-Net, sACN and Madrix Post Sync
- Configuration utility with basic Art-Net output/input test functionality

eDMX MAX translates Art-Net 00:0:0 to Universe 1 (i.e. offset by 1) so there is an easy mapping between sACN/E1.31 and Art-Net.

## EXTERIOR VIEW

### FRONT VIEW



- 5pin and 3pin XLR socket variants. DMX port status indicator bottom left of XLR socket.

## REAR VIEW



- Network 10/100Mbps RJ45 socket. USB-C socket for DC power input.

## STATUS LED TABLE

LED	Indication
Protocol	Protocol activity. Flash Yellow = Art-Net/sACN. Solid Yellow = Bootloader mode
Link/Act	Network activity. Green = Link, Flash = Traffic
Port A – Front XLR	DMX512 Port A TX/RX activity

## USB DMX OPERATION

- DMXking MAX series devices include USB DMX functionality alongside Ethernet lighting protocols ArtNet/sACN.

## SOFTWARE COMPATIBILITY

Software packages for USB DMX use either a Virtual COM Port (VCP) driver or FTDI specific D2XX driver. DMXking MAX series uses VCP which is more universal than FTDI D2XX, especially across different operating systems, however, this has created some compatibility issues with existing software packages using the later. We are working with software developers still using D2XX to encourage updating their code to utilize VCP instead and also leverage DMXking USB DMX protocol extensions that allow multiple universe operation. Check <https://dmxking.com/> for the DMXking MAX series USB DMX-compatible software list.

## DEVICE CONFIGURATION

Previously DMXking USB DMX capable devices did not require DMX port configuration for DMX-IN mode as this was automatically selected by certain USB DMX messages. This has changed in DMXking MAX series devices which now require explicit DMX-OUT or DMX-IN port configuration along with selecting which port to forward over USB DMX to allow multi-port devices to function with complete flexibility.

## DMX PORT MAPPING

- Simple USB DMX protocol output messages are automatically mapped to the physical DMX512 ports regardless of configured universe.

## USB DMX SERIAL NUMBER

For software compatibility reasons a BCD serial number is calculated from the MAX device hardware MAC address using the lower 3 hexadecimal bytes converted to a decimal number. Software that has been updated for MAX series devices will display the hardware MAC address.

## DEFAULT CONFIGURATION

- All eDMX4 MAX DIN units ship with default IP address settings. Please reconfigure network settings as required before use.

Parameter	Default Setting
IP Address	192.168.0.112
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254
IGMPv2 Unsolicited Report	<i>Unchecked</i>
Network Mode	DHCP

DMX512 Port configuration parameter defaults.

Parameter	Default Setting
Async Update Rate	40 [DMX512 frames per second]. Universe Sync will override.
Port Operation Mode	DMX-OUT
Timeout all sources	<i>Unchecked</i>
Channel Offset	0

Fixed IP	0.0.0.0 [Only for DMX IN – Unicast to 1 IP address only]
Merge Mode	HTP
Full DMX Frame	<i>Unchecked</i>
*Broadcast Threshold	10 [Art-Net II/3/4 unicasting up to 10 nodes]. Set to 0 for Art-Net I broadcast on DMX IN ports.
Unicast IP [DMX-IN]	0.0.0.0
sACN Priority [DMX-IN]	100
RDM Discovery Period [DMX-OUT]	0s / RDM Disabled
RDM Packet Spacing [DMX-OUT]	1/20s
DMX-OUT Failsafe Mode	Hold Last
Recall DMX Snapshot at startup	<i>Unchecked</i>
DMX512 Universe	1 [Net 00, Subnet 0, Universe 0-0] Note: sACN Universe 1 = Art-Net 00:0:0

- The global threshold for all DMX-IN ports, configured only in Port A settings tab.

## CONFIGURATION UTILITY

- Download MX MAX Configuration Utility from <https://dmxking.com/downloads-list>
- User manual for the utility <https://dmxking.com/downloads/eDMX> MAX Configuration Utility User Manual (EN).pdf

## TECHNICAL SPECIFICATIONS

- **Dimensions:** 43mm x 37mm x 67mm (WxHxD)
- **Weight:** 90 grams (0.2lbs)
- DC Power input 5Vdc, 250mA 1.25W max
- USB-C power input. For any USB-C power source, only 5V supply is negotiated.
- DMX512 connector: 3-pin or 5-pin XLR socket.
- DMX512 port is NOT isolated from DC power input. Using an isolated USB-C power source will isolate the DMX port.
- Ethernet 10/100Mbps Auto MDI-X port.
- Internal DMX512-A line biasing termination as per ANSI E1.20 RDM requirements
- Art-Net, Art-Net II, Art-Net 3, Art-Net 4 and sACN/E1.31 support.
- ANSI E1.20 RDM is compliant with RDM over Art-Net. Not available in firmware 4.1
- Universe Sync Art-Net, sACN and Madrix Post Sync.
- Both HTP and LTP merging of 2 Art-Net streams per port
- sACN Priority
- IPv4 Addressing
- IGMPv2 for multicast network management
- DMX512 Frame Rate: Adjustable per port
- Operating temperature 0 C to 50 C non-condensing dry environment

## WARRANTY

### DMXKING HARDWARE LIMITED WARRANTY

#### What is covered

This warranty covers any defects in materials or workmanship with the exceptions stated below. How long coverage lasts This warranty runs for two years from the date of shipment from an authorized DMXking distributor. What is not covered Failure due to operator error or incorrect application of product.

#### What DMXking will do?

DMXking will repair or replace, at its sole discretion, the defective hardware.

#### How to obtain service

Contact your local distributor <https://dmxking.com/distributors>

- DMXking.com
- JPK Systems Limited
- New Zealand 0132-700-4.5





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eDMX1 MAX Ethernet DMX Adapter, eDMX1 MAX, Ethernet DMX Adapter, DMX Adapter, Adapter

## References

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