

Martin Professional Ether2DMX8™



DMX router...and much more!

Ether2DMX8 – Introduction



What is Ether2DMX8?

The Martin Ether2DMX8 allows users to increase the number of DMX universes and/or easily place DMX universes remotely on any TCP/IP Ethernet network.

In addition, the Ether2DMX8 can be used as a DMX merger, DMX splitter hub, fail safe device, cue playback, DMX viewer monitor, and more...



Ether2DMX8 – Why do you need it?



Today's shows and installations require thousands of DMX channels. And with the increased use of LED fixtures and video mapping, it is now mandatory to have fast DMX response and proper network load management.



With its **fast processor** and unicast Artnet mode, the Ether2DMX8 ensures **instant response** and **lower network load**.

Add to this the **simplicity** of setup and remote access and you have the **best Artnet to DMX converter** available today.

Ether2DMX8 – What's so special...?

Many tools, one device

- Artnet to DMX converter
- DMX merger
- DMX splitter hub
- Fail safe device
- Cue playback
- DMX viewer monitor
- Fast processing
- Low latency
- Efficient network management



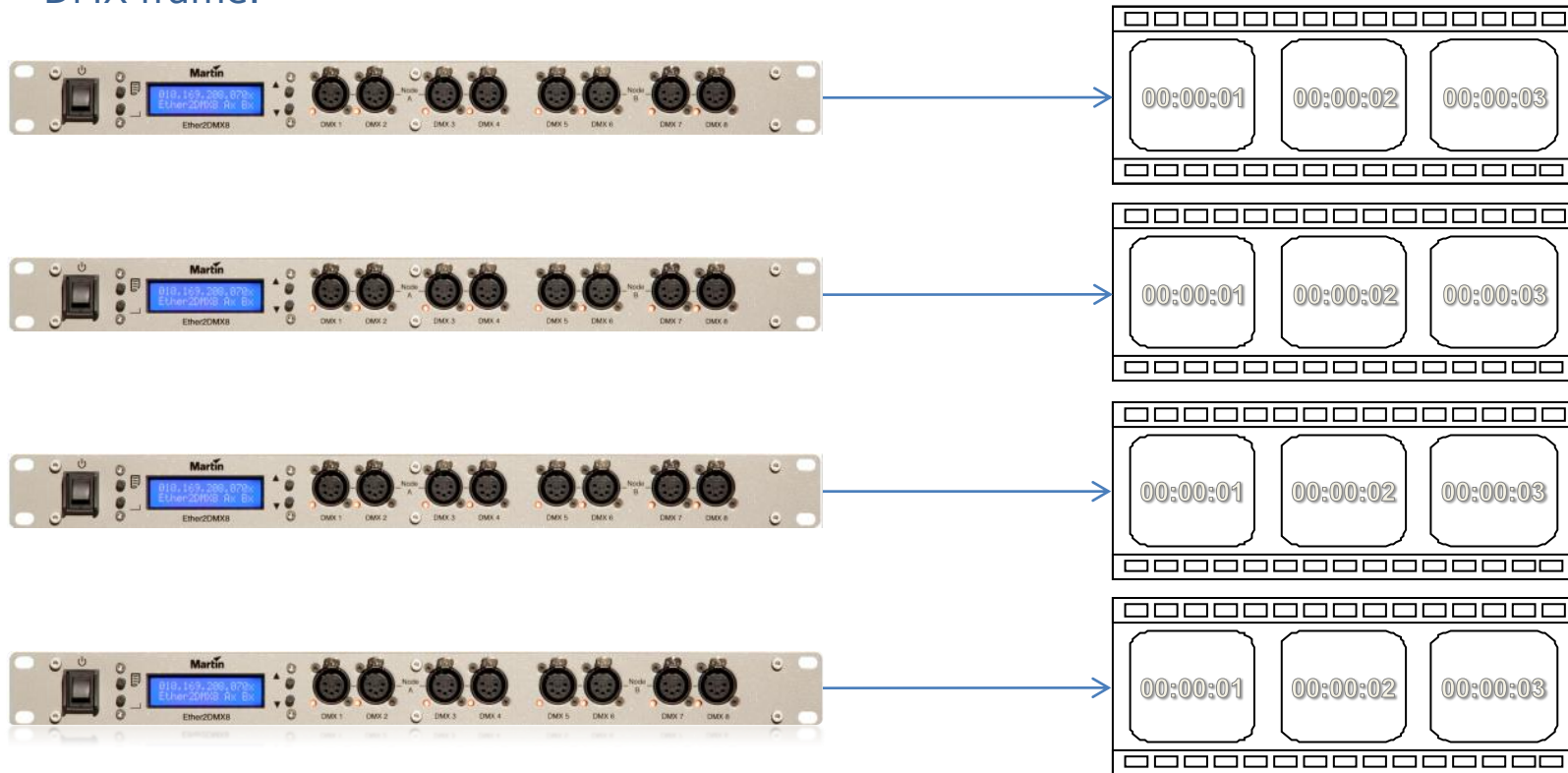
Ether2DMX8 – Key features

- Artnet to DMX conversion
- DMX to Artnet conversion
- 10 Factory Presets
- 10 User Presets
- 99 Cues with Fade Time, Hold Time and Cue linking
- 8 Switch Inputs
- 8 XLR female 5pins
- DMX Splitter / booster
- DMX Monitor
- DMX and Artnet Test Generator
- Multiple Artnet IP in for backup system.
- USB port for backup and firmware updates



Ether2DMX8 – Fast and Synched

One of the most serious issues faced with large systems is the synchronization between universes on the same EtherDMX device, and even more important is the synch between devices. A lot of attention has been placed on this and through some clever algorithms our engineers have found a way to achieve synchronicity between each DMX frame.



Ether2DMX8 – Easy as 1,2,3

```
EXIT
1:Fact. Presets↓
```

```
1:Presets
#1 Maxxyz
```

```
#4 4In-4Out
OK Univ:001-004
```

The Martin Ether2DMX8 is one of the **easiest products** you'll ever use with 90% of all applications set through a series of **10 factory presets**.

No complicated setup procedure!

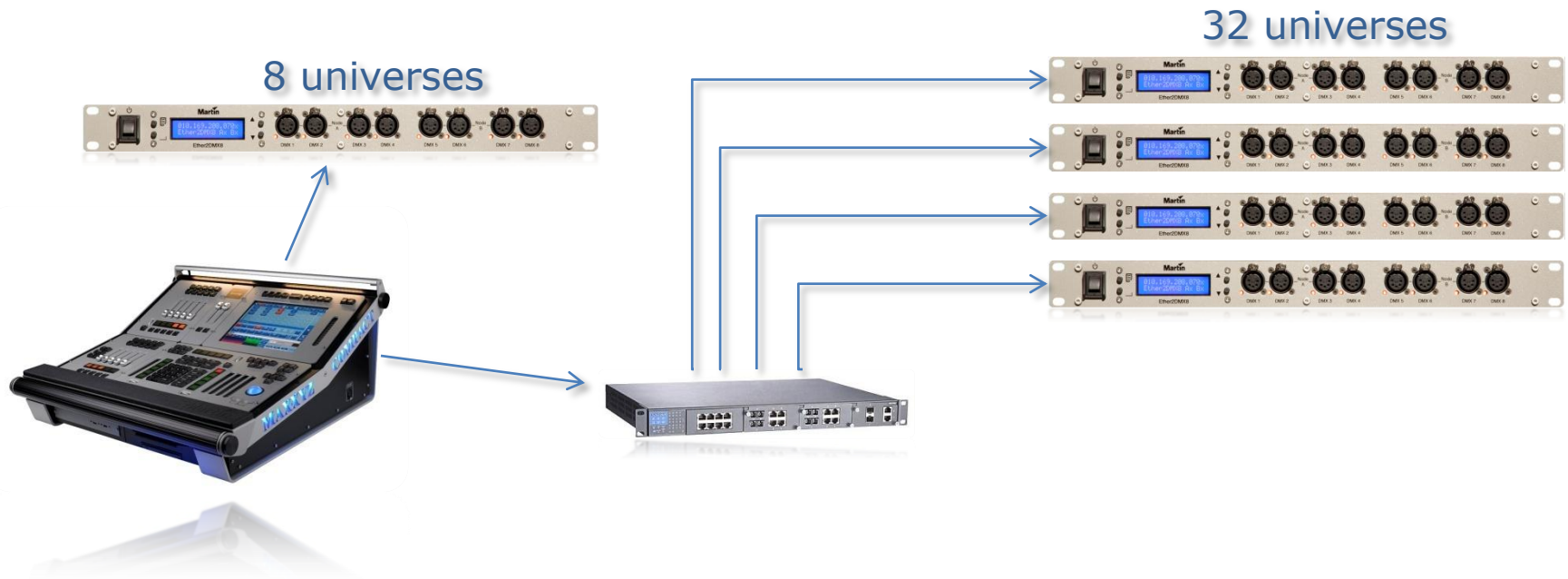
- 1) Maxxyz
- 2) Maxedia
- 3) Maxxyz / Maxedia
- 4) 8 X Input (MSD)
- 5) 4 in / 4 out
- 6) DMX Split 1-7
- 7) DMX Split 1-3
- 8) Artnet Clone
- 9) Broadcast mode 2.x.x.x
- 10) Broadcast mode 10.x.x.x

Ether2DMX8 – Universes extender

The main purpose of the Ether2DMX8 is to add or replicate DMX universes on a lighting network setup.

Each Ether2DMX8 can manage up to **8 DMX universes**.

Simply connect the Ether2DMX8 to an **Artnet / Artnet II compliant** console or PC-based controller.

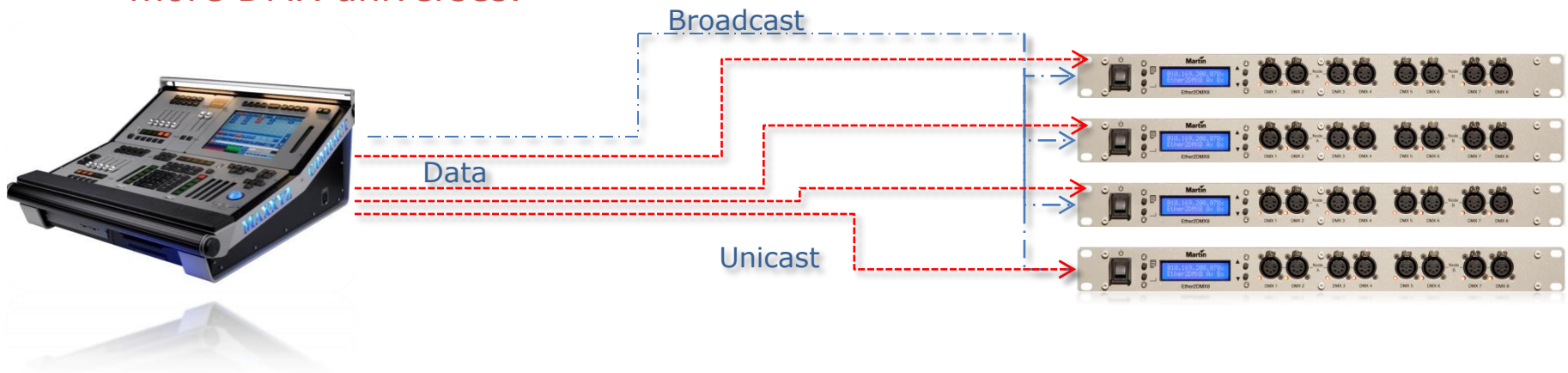


Ether2DMX8 – Broadcast vs Unicast

The Ether2DMX8 can manage Artnet in **Broadcast** or **Unicast** mode.

While the Broadcast mode is the most popular due to its simplicity it also puts a heavy load on the network infrastructure. One device transmits while all devices receive the same information and must filter to get only the needed data.

In Unicast mode data is sent from one device to another. One device transmits, one device receives. **Unicast** allows a network to handle far more DMX universes.



Ether2DMX8 – DMX-IN

The preset is used for DMX input conversion to Artnet on all 8 ports using the 2.x.x.x address range.

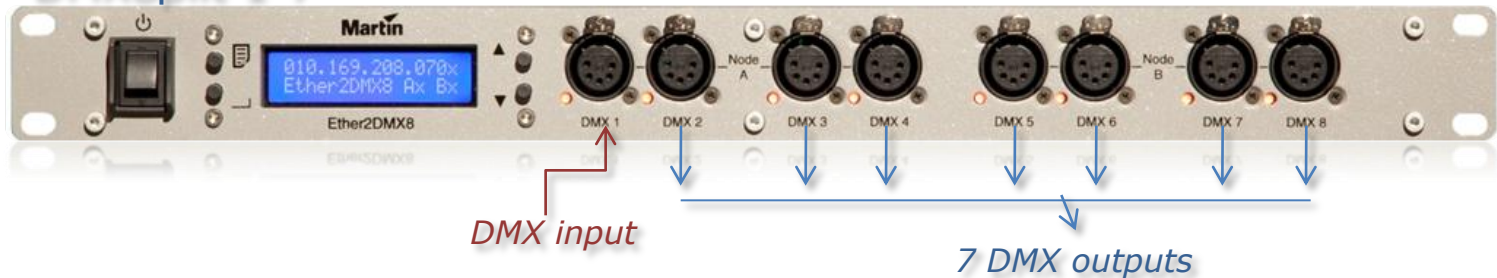
This includes Martin ShowDesigner and many other visualization programs. It can also be used to capture older consoles with no Artnet output and route them into an Artnet system.



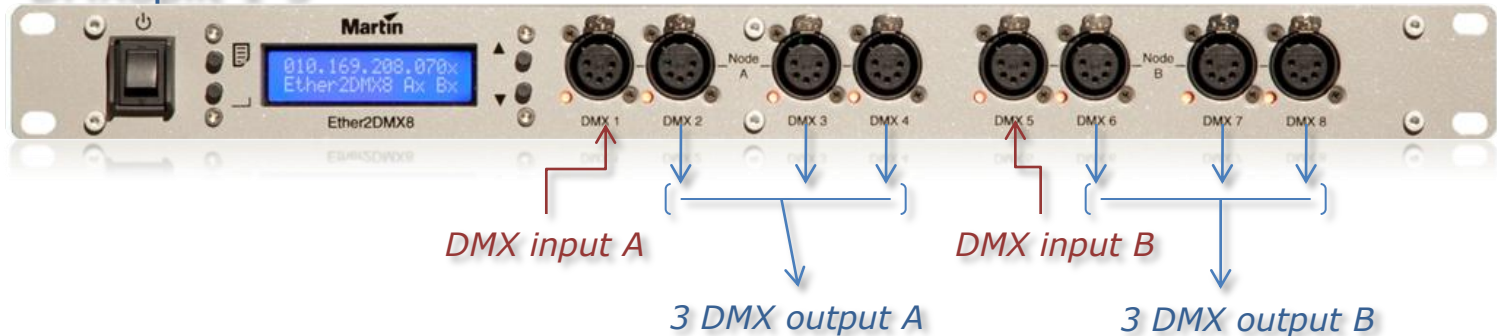
Ether2DMX8 – DMX Splitter / Booster

The Ether2DMX8 can be used as a normal DMX splitter / booster.
Two modes are available:

DMXSplit 1-7

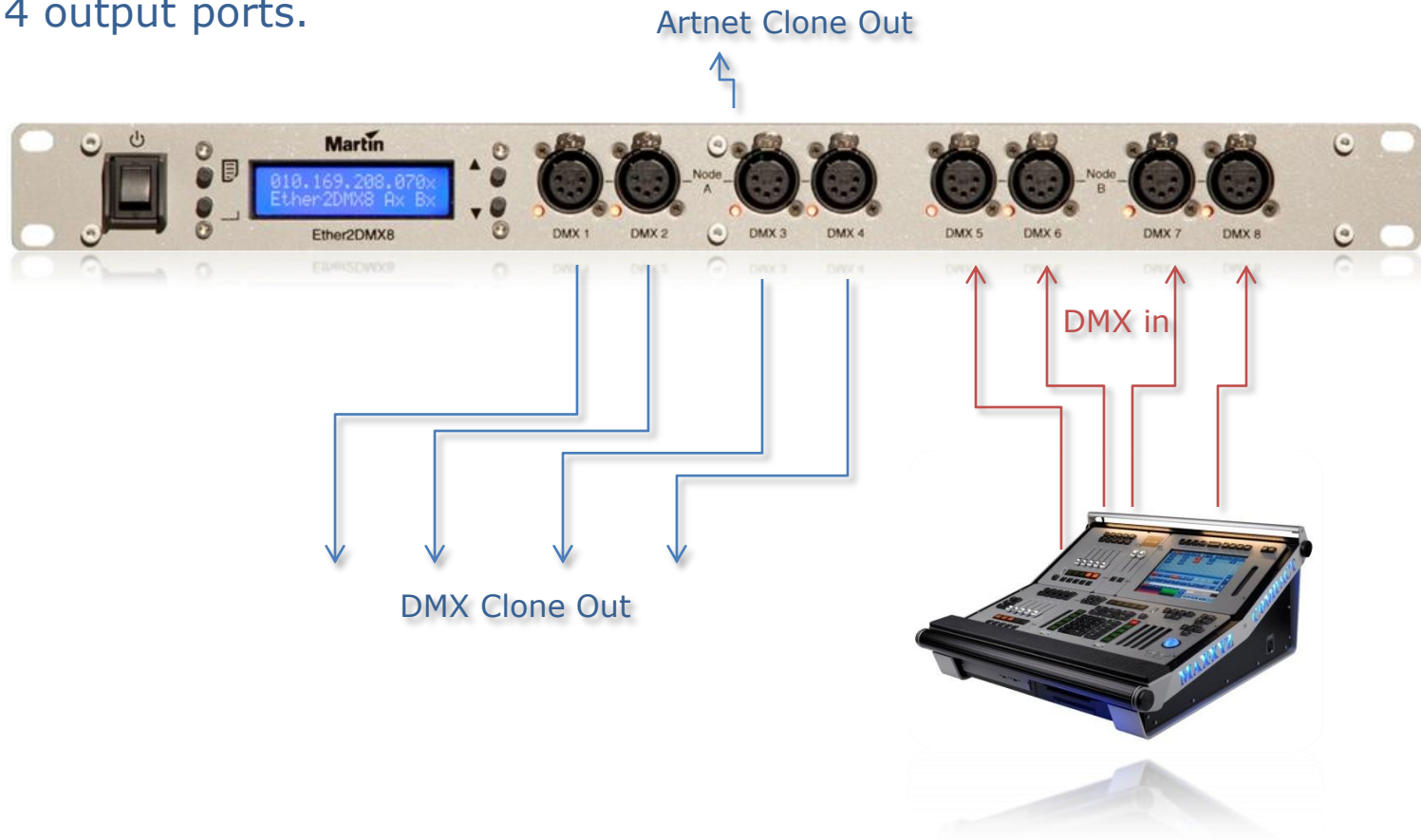


DMXSplit 1-3



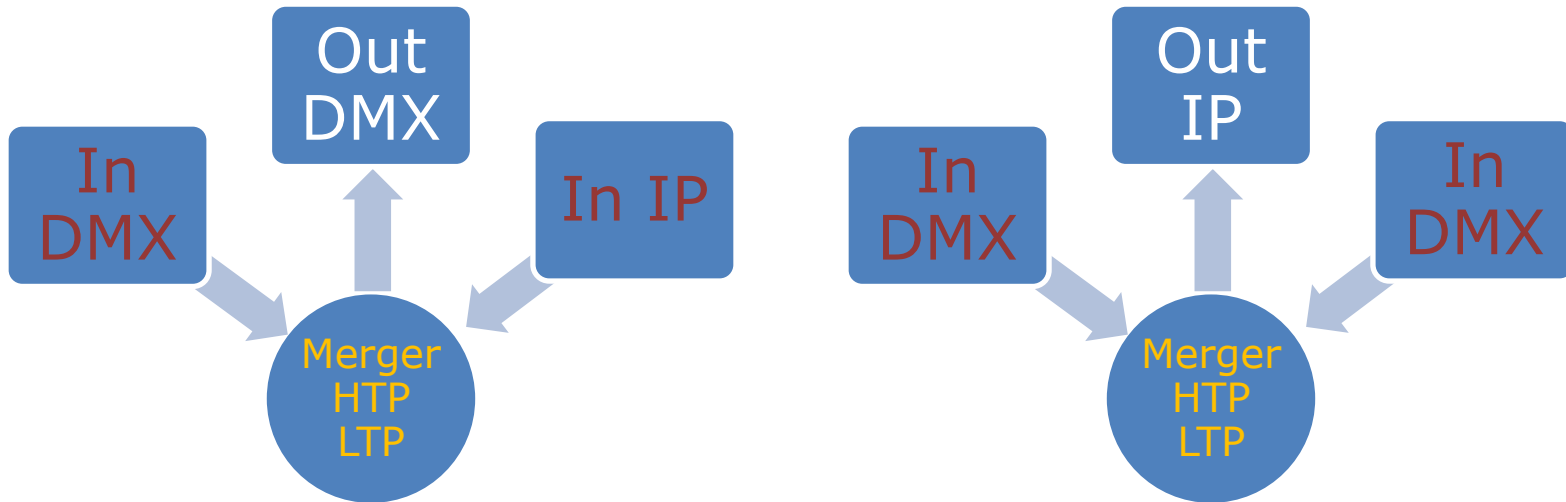
Ether2DMX8 – Artnet Clone

The preset is used to replicate a standard Artnet node with 4 Input ports and 4 output ports.



Ether2DMX8 – Merger

The merger allows two inputs to be merged into one output. The Input can be DMX or IP and so is the output. The merge priority can be set as HTP or LTP.



Ether2DMX8 – DMX Monitor



The Ether2DMX8 allows monitoring of any DMX channel of any of the 8 DMX ports.

Values can be displayed in various ways:
Percentage, decimal or graphically.

Also shown is the minimum and maximum DMX value in the current viewing session.



```
DMX 255 +255 CH  
1 █ 100%-025 011
```

```
# 0F00000000 001  
1 █ 010
```

Ether2DMX8 – DMX Test



DMX Test is used to generate DMX data for troubleshooting and testing purposes.

It is a slow gradual cycle between the DMX values of 20 and 200.

The test data can be sent to individual ports or to all of them simultaneously.



```
5: DMX Test
Ports
```

```
Test Ports
DMX All ↓
```

```
DMX Test PortAll
Value 020 _
```

Ether2DMX8 – Cue playback



The Ether2DMX8 router has the ability to store 99 cues.

Cues have many different uses, some examples are:

- Standalone playback
- Backup Cues in case of controller failure
- Emergency Lighting Cue for a fire alarm via the switch inputs
- Automatic Lamp Strike during system power on
- Lighting cue without the need for a lighting console to be turned on
- Lighting cues triggered by standard light switches

Ether2DMX8 – Cue playback

A cue is a snapshot of the current levels (4096 channels) on all 8 DMX ports.

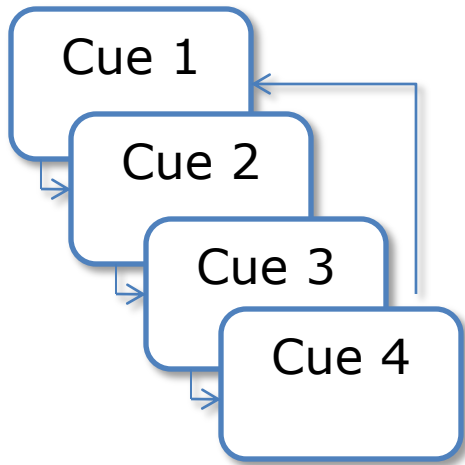
Only one cue can be played at any given time with its own fade and hold times.

Multiple cues can be linked to each other to create a simple cue list.

Playing back a cue will block any other DMX processing until the cue is stopped.

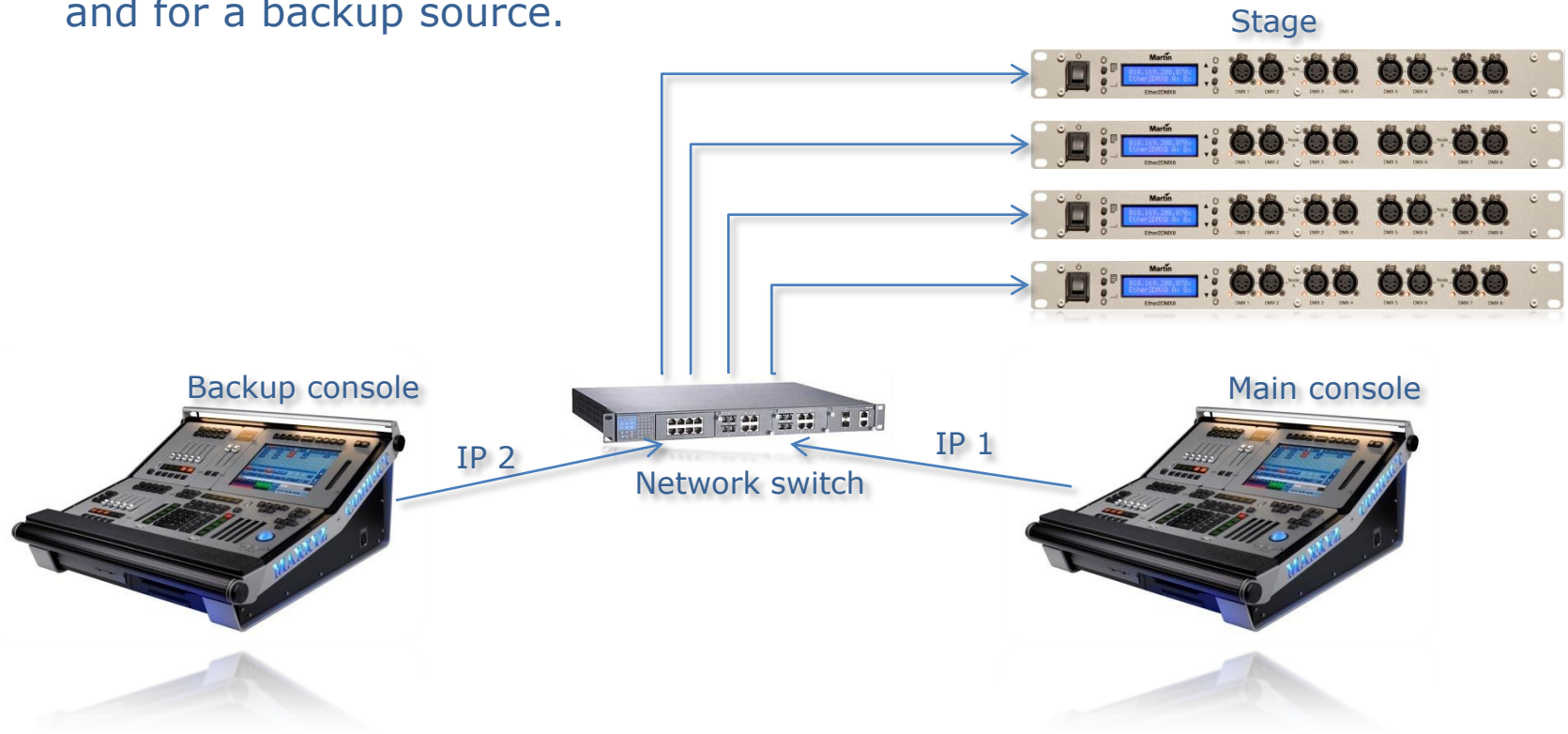
Switch Inputs can be linked to cues, allowing the Ether2DMX8 router to function as a simple playback device for installations, tradeshow booths or a simple retail environment.

It is also possible to assign a cue to be run upon startup of the router.



Ether2DMX8 – Fail safe

- The Ether2DMX8 can be used to automatically switch from one Artnet source to another in case of failures. A simple setting allows for assigning of a receiving IP address for a main and for a backup source.



Ether2DMX8 – Emergency Alarm



A common application for use of an external trigger:

Many building codes require linking sound and light systems to the fire alarm. In case of emergency, a cue is triggered that overrides any inputs. This cue could be all fixtures going to open white for example.



Switch Input 1

Switch 1

Select Mode

Select Cue

Save

Ether2DMX8 – Web Remote

All settings of the Ether2DMX8 can be remotely changed using a simple web browser.

This clearly simplify setups when multiple devices are used on the same network.

Martin Ether2DMX8
002.168.017.075

Status

Info

Device Name : Ether2DMX8
Firmware Version : V0.51 B1.23
Device IP : 002.168.017.075
Active Preset : Maxayz
In Test : No

DMX Ports

	Mode	Source	Universe	Range	Framerate
DMX 1	Output	Artnet	1	1 - 512	Follow Input
DMX 2	Output	Artnet	2	1 - 512	Follow Input
DMX 3	Output	Artnet	3	1 - 512	Follow Input
DMX 4	Output	Artnet	4	1 - 512	Follow Input
DMX 5	Output	Artnet	5	1 - 512	Follow Input
DMX 6	Output	Artnet	6	1 - 512	Follow Input
DMX 7	Output	Artnet	7	1 - 512	Follow Input
DMX 8	Output	Artnet	8	1 - 512	Follow Input



Cues

Run Cue

Select Cue : Cue01 - CueName
Go Stop

Save Cue

Cue Name : CueName
Cue Number : Cue01 - CueName
Save

Link Cue

Current Cue : Cue01 - CueName
Next Cue : Cue03 - Cue03
Fade Time (sec) : 0
Hold Time (sec) : 1
Save

System

System Settings

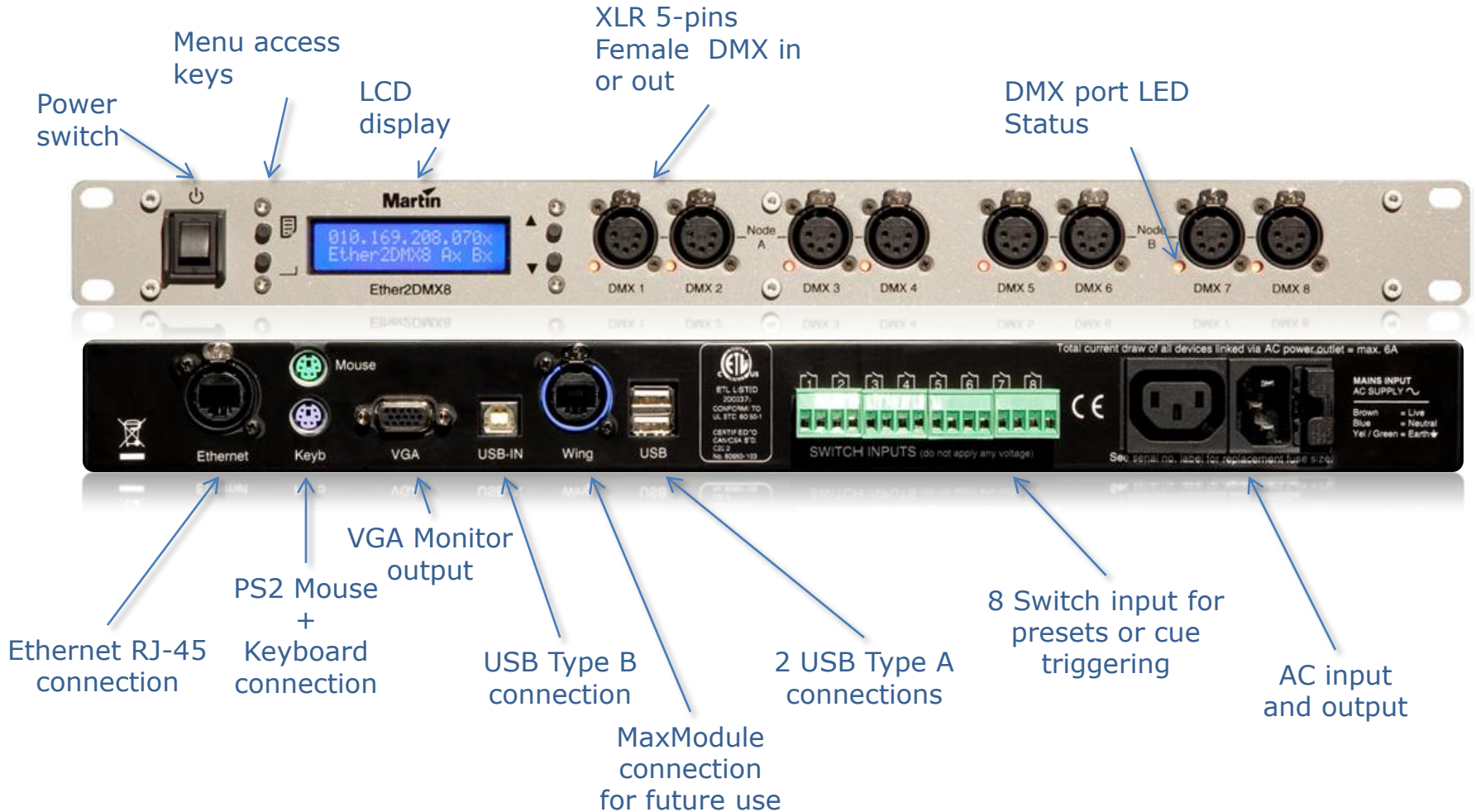
Device Name : Ether2DMX8
Display Timeout : Always on
Display Scroll : 0
DMX Hold : Follow
Startup : Wait for data
Save

Load Settings

Load settings : [] Load

Reset To Defaults Save Current Settings Reboot

Ether2DMX8 – Overview



Specifications can change without notice

Ether2DMX8 – specifications

Physical

- Length: 288 mm (11.3 in.)
- Width: 482.2 mm (19.0 in.) ,19-inch rackmount
- Height: 43.6 mm (1.7 in.),1U
- Weight: 3.6 kg (7.9 lbs.)

Control/User Interface

- Front panel display with 4-button control menu
- 1 x dual-color LED per port
- Mouse & keyboard input
- Remote web access
- DMX viewer for any physical incoming or outgoing DMX port

Hardware

- 520 MHz processor for fast, synchronized DMX output, latency virtually zero
- **Ethernet:**
- Artnet-compliant, Artnet II-compliant
- ACN-ready
- Built-in webpage for quick access and remote setup
- 10/100 Mbit connection
- **8 ports:**
- Configurable as input or output
- Opto-isolated circuit for each port
- User-definable DMX timings for each port
- Each port set as output can be set to constantly repeat the last received DMX frame, or
- : only to output new frames
- RDM-ready
- Dual-color LED for each port
- **8 open-contact inputs:**
- Inputs transmit Artnet-compatible contact closures on the network
- Contact closures can trigger factory and user presets and start cue playback

Software

- 10 user presets for device configuration
- Maxxyz, Maxedia use preset with auto-IP address setting
- Presets for DMX Hub and Spitter functionality

- Mergeable setup where multiple inputs are routed in LTP, HTP to one output
- Ports assignable to input or output
- Ports routable to/from internal ports or to/from any DMX universe on Artnet
- Port routing triggerable by contact closure through the use of user presets
- Ports' DMX channel ranges configurable
- Merger modules routable between inputs & outputs and/or Artnet universes
- Channel ranges can be put in LTP/HTP, copy or fixed value from other channels
- Auto or manual IP addressing
- Tracking backup function: automatic handover if one Artnet signal fails to another Artnet signal
- DMX and Artnet test pattern generator
- Artnet broadcast and unicast compatible
- Configuration files loadable/storable on USB memory sticks
- Firmware upload via USB memory stick

Construction

- Housing: Steel and aluminum
- Finish: Electrostatic powder-coated
- Installation 19-inch rack mount (1U)

Connections

- 10/100 base-T ethernet port: Neutrik locking RJ45 Ethercon socket
- DMX in/out ports: 8 x 5-pin female XLR
- Keyboard: USB or PS2
- Mouse: USB or PS2
- Backup, software upload: USB
- Monitor: VGA 15-pin
- AC power input: 3-pin IEC male socket
- AC power throughput: 3-pin IEC female socket
- Electrical AC power: Auto-ranging 100 - 240 VAC nominal, 50/60 Hz
- Main fuse: 2 x 500 mA T (slow-blow)
- Typical Power and Current 100 V, 60 Hz: 220 mA

Ordering Information

- Ether2DMX8: 90758130

Specifications can change without notice

Ether2DMX8 – Dimensions

