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## WyreStorm MX-0403-H3-MST 4×3 Multi-Input Conference Room Switcher



#### INTRODUCTION

• WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.







#### SAFETY INSTRUCTION

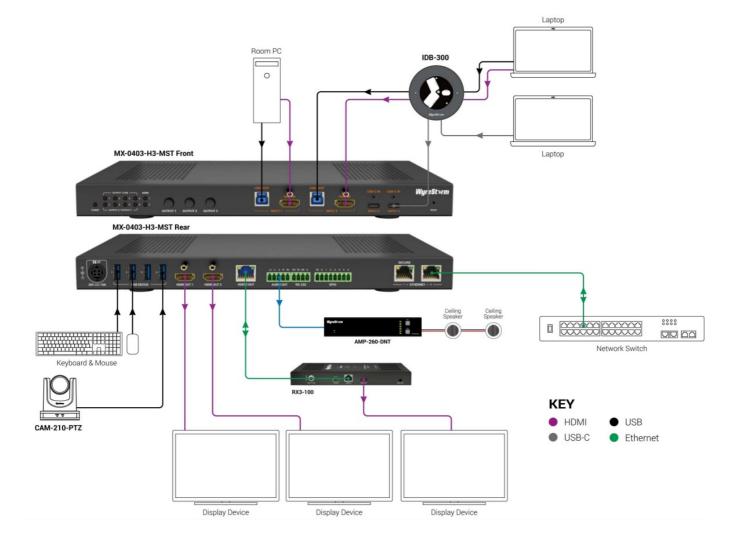
## IMPORTANT! Installation Requirements

- Read through the Wiring and Connections section for important wiring guidelines before creating or choosing premade cables.
- While these products support CEC for the HDMI outputs, WyreStorm cannot guarantee compatibility with all forms of CEC communication.
- Visit the product pages to download the latest firmware, document version, additional documentation, and configuration tools.

#### In the Box

- 1 x MX-0403-H3-MST
- 7 x 20V 7 OA Power Supply (US/UK/EU/ AU)
- 2x USB-C 2m cables
- 2x USB 3.0 A to B 1.Bm Cables
- 4x Mounting Brackets
- 4x Bracket Screws
- 1 x 5-pin Phoenix Connector
- 7 x 3-pin Phoenix Connector
- 7 x 8-pin Phoenix Connector
- 7 x Quickstart Guide (This Document)

## **Basic Wiring Diagram**



## **Wiring and Connections**

- WyreStorm recommends that all wiring for the installation be run and terminated before making connections to the switcher.
- Read through this section in its entirety before running or terminating any wires to ensure proper operation and to avoid damaging the equipment.

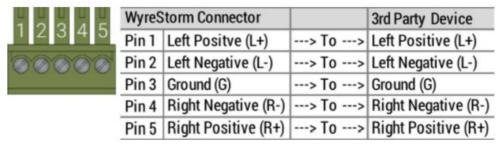
## IMPORTANT! Wiring Guidelines

- The use of patch panels, wall plates, cable transmitters, kinks in cables, and electrical or environmental interference will harm signal transmission, which may limit performance.
- Steps should be taken to minimize or remove these factors completely during installation for the best results.
- WyreStorm recommends using pre-terminated HDMI, USB, and Ethernet cables due to the complexity of these connector types.
- Using preterminated cables will ensure that these connections are accurate and will

not interfere with the performance of the product.

#### **Audio Connections**

• A 5-pin Phoenix connector is used for balanced stereo audio output.



 This product contains two USB-C connections that can be used as an audio/Video input. When using this connection, verify that the USB-C cable used supports audio/Video functionality, as not all USB-C cables support this requirement.

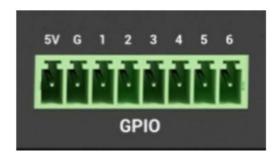
#### **GPIO Ports**

- 8-pin 3.5mm Phoenix female connector. This connector features 5V, GND, and 6
   GPIO pins.
- Each GPIO pin can be independently configured as either a Digital Input or a Digital Output, with the default setting being Digital Input.

### **GPIO Voltage and Current Specifications:**

• 5V Pin: 5V/500mA

• GPIO Pins: 5V/50mA each



#### **Communication Connections**

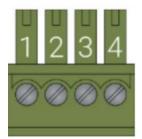
#### **RS-232 Wiring**

• The MX-0403-H3-MST uses a 4-pin RS-232 with no hardware flow control. Most

control systems and computers are DTE, where pin 2 is RX; this can vary from device to device.

 Refer to the documentation for the connected device for pin functionality to ensure that the correct connections can be made.

#### 4-Pin Phoenix Terminal



| WyreStorm Connector |               |               | 3rd Party Device |
|---------------------|---------------|---------------|------------------|
| Pin 1               | 12V DC Out    | No Connection | Reserved         |
| Pin 2               | TX (Transmit) | > To>         | RX (Receive)     |
| Pin 3               | RX (Receive)  | > To>         | TX (Transmit)    |
| Pin 4               | G (Ground)    | > To>         | G (Ground)       |

#### **Setup and Configuration**

 Access the MX-0403-H3-MST settings through its Web User Interface by entering the unit's IP address into your preferred web browser.

#### RS-232 and IP Settings

• Baud Rate: 115200

• Data Bits: Bbits

• Parity: None

• Stop Bits: 1 bit

• Flow Control: None

• Default IP Address: DHCP

• Default IP Port: 23

#### **USB-C MST**

- The MX-0403-H3-MST features two USB-C ports, labeled USB-C IN 3 and USB-C IN 4, for connecting laptop devices. By default, both ports operate in SST mode (Single Screen).
- However, the USB-C IN 4 port can also support MST mode (Multi-Stream Transport), enabling dual-screen output. When USB-C IN 4 is in MST mode, the USB-C IN 3 port will be disabled.

- The USB-C IN 4 port will then transmit two video streams through a single USB-C cable, with these streams being output to both HDMI OUT ports.
- The resolution of the video streams will be limited to 4K at 30Hz, and the priority of the USB-C IN 4 port will be set to the highest level.

#### **LED & Button**

#### **LED** indicators

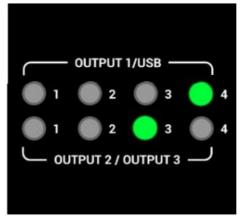
- The MX-0403-H3-MST has video, USB, and audio indicator LEDs on the front panel.
- All LEDs support two colors: green and red
- The color of the LED indicators corresponds to different statuses.
- Red: Selected USB input
- Green: Selected video/audio input
- White: Unselected input

#### **Button**

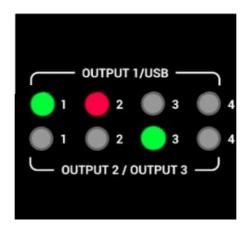
- Two buttons are provided for video switching.
- One button is available for audio switching.
- Note: There is no independent button for USB switching. When the USB follows video,
   the video button is used to switch to the USB.

## **Example:**

- Example 1: USB Follow H DM I OU TI.
- OUT & USB » USB-C IN 4
- OUT 2/3 » USB-C IN 3



- **Example 2:** USB Independent switch.
- OUT » HDMI IN 1
- USB » USB HOST IN 2
- OUT2/3 » USB-C IN 3



## **Troubleshooting**

#### No or Poor Quality Picture (snow or noisy image)

- Verify that the USB-C & HDMI inputs and HDMI output connections are not loose and are functioning properly.
- Make sure you are using full-featured USB Type-C cables made by
- WyreStorm or other reliable brands.
- Verify that the output resolution of the source and display is supported by this switcher.
- Configure EDID Settings to a lower resolution.
- If transmitting 4K, verify that the HDMI & USB-C cables used are 4 K-rated.

## No or Intermittent 3rd party Device Control

Verify that the IR, RS-232, and Ethernet cables are properly terminated.

#### Reset

- Click the "RESET' button through the Web UI.
- Send "RESET' API via RS232 or Telnet.

 Hardware: Press and hold the Reset button for 15 seconds, all LEDs will flash 4 times quickly.

## **Troubleshooting Tips:**

• WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

## **Specifications**

| Audio and Video                |   |  |  |  |
|--------------------------------|---|--|--|--|
| Inputs                         | 2x HDMI In 7 9-pin Type A 2x USB-C  |  |  |  |
| Outputs                        | 2x HDMI Out: 19-pin Type A  7 x Analog Audio Out (5-pin Phoenix Male Connector) 1x HDBaseT  3 Out: RJ45 |  |  |  |
| Output Video<br>Encoding       | 18Gbps  |  |  |  |
| Audio Format<br>s              | DTS 5.1, DTS-HD Master Audio, and DTS: X.   |  |  |  |
| Video<br>Resolutions (<br>Max) | 3840x2160p @60Hz 4:4:4 8bit   |  |  |  |

|                         | USB-C IN: 7 OGbit/s (per lane).                                    |  |  |  |
|-------------------------|--|--|--|--|
| Data Rate               | HDMI: 7 8Gbps.   |  |  |  |
|                         | <b>USB 3.2:</b> 5Gbit/s.   |  |  |  |
| HOR Format              | All HOR formats, including HOR 10, HLG, HOR 10+, and Dolby Visi on |  |  |  |
| Supported Sta ndards    | DCII RGB   |  |  |  |
| Maximum Pix<br>el Clock | 600MHz   |  |  |  |
| Power                   |  |  |  |  |
| Power Supply            | 20V  |  |  |  |
| Power Consu<br>mption   | Up to 200W   |  |  |  |
| Environmental           |  |  |  |  |
| Operating Te mperature  | O to+ 45°C (32 to+ 713 °F), 7 0% to 90%, non-condensing            |  |  |  |
| Storage Temp erature    | -20 to+ 70°C (-4 to+ 7 58 °F), 70% to 90%, non-condensing          |  |  |  |

| Maximum BT<br>U       | Power consumption 13.1W (No USB-A load and USB-C charging), a 44.7 BTU/hr  Power consumption 35.6W (with 22.5W USB-A and no USB-C charging), a 127.5 BTU/hr. Power consumption 155.6W (with 22.5W USB-A and 2x 60W USB-C charging), a 531.1 BTU/hr |  |  |  |
|-----------------------|--|--|--|--|
| Dimensions and Weight |  |  |  |  |
| Length x Widt         | 300mm x 180mm x 25mm   |  |  |  |
| Weight                | I .37kg/3.02lbs  |  |  |  |
| Regulatory            |  |  |  |  |
| Safety and Em         | CEIFCCIRoHSIRCMIEACIUKCA   |  |  |  |

• Note: WyreStorm reserves the right to change product specification, appearance, or dimensions of this product at any time without prior notice.

## **Warranty Information**

- WyreStorm Technologies ProAV Corporation warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase.
- Refer to the Product Warranty page on <u>wyrestorm.com</u> for more details on our limited product warranty.



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## **Documents / Resources**



WyreStorm MX-0403-H3-MST 4x3 Multi Input Conference Room Switcher [pdf] User Guide

MX-0403-H3-MST, MX-0403-H3-MST 4x3 Multi Input Conference Room S witcher, 4x3 Multi Input Conference Room Switcher, Multi Input Conference e Room Switcher, Conference Room Switcher

#### References

- User Manual
- WyreStorm
- ◆ 4x3 Multi Input Conference Room Switcher, Conference Room Switcher, Multi Input Conference Room Switcher, MX-0403-H3-MST, MX-0403-H3-MST 4x3 Multi Input Conference Room Switcher, WyreStorm

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