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WyreStorm MX-0804-EDC 8x4 Multi Input Matrix Switcher

WyreStorm MX-0804-EDC 8×4 Multi Input Matrix Switcher User Guide

Contents

WyreStorm®

WyreStorm MX-0804-EDC 8×4 Multi Input Matrix Switcher

Specifications:

- Input Video Encoding: HDMI

- Output Video Encoding: HDMI
- Encoding Data Rate: 18Gbps
- Audio Formats: PCM 2ch Analog
- Video Resolution (Max): 1920x1080p @60Hz, 3840x2160p @60Hz, 4096×2160 @60Hz
- Maximum Pixel Clock: 600MHz
- Communication and Control: HDMI, Dante Ultimo, RS-232, Ethernet
- Power Supply: AC 100-240V socket
- Max Power Consumption: 60 watts
- Operating Temperature: [specify range]
- Storage Temperature: [specify range]
- Maximum BTU: [specify value]
- Dimensions and Weight: [specify dimensions and weight]
- Rack Units/Wall Box: [specify units]
- Regulatory: [list supported standards]

Product Usage Instructions

Port Descriptions:

1. Grounding Screw: Shields the matrix from EMI/RFI and static discharge.
2. Power Socket: AC 100-240V socket for power supply.
3. USB-C Input: Supports USB 3.0 host and charging.
4. HDMI Inputs: Supports HDMI 2.0, HDCP 2.3, auto switching.
5. HDMI Outputs: Full scaler with various resolutions support.
6. Ethernet Ports: For TCP/IP control and cloud monitoring.
7. Dante Output: Dante Ultimo audio output.
8. RS-232 Control: Switcher control via RS-232.
   ### Additional Ports:
9. USB Host: USB 3.0 port for host switching.
10. USB Device: USB 3.0 port for connecting cameras, mice, keyboards, etc.

Wiring Diagrams:
Refer to the provided wiring diagrams for different setups like Local Presentation, Large Lecture Hall, and Corporate Unified Communications.

FAQ:

- Q: How do I access full manuals and documentation?

  A: Scan the QR code provided on the product or visit **wyrestorm.com** for other language versions.
- Q: What are the supported video resolutions?

  A: The device supports resolutions up to 1920x1080p @60Hz, 3840x2160p @60Hz, and 4096×2160 @60Hz.

WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process. For other language versions of this document, check **wyrestorm.com**.

DOCUMENTATION

To access all documentation including full manuals, scan the QR code.

Key Features

- Multi-format video connections include USB-C and HDMI
- Fast up to 1 second switching across all video inputs and outputs
- 480p to 2160p scaling built-in all video outputs
- USB-C input supports 4K60 video, USB3.0/USB2.0, 1G network, and PD3.0 USB host charging up to 60watts
- Supports USB host switching and device extension
- Switching USB hosts include 1x USB-C port, 2x local USB3.0 USB-B ports input related USB connection.
- USB devices include 4x local USB3.0 USB-A ports related USB connections
- Supports 2x MIC inputs, 1x LINE input, Dante 4×4 optional and 2x 5-pin balanced audio outputs
- Supports audio DSP, include gain control, mixer, ducking, mute etc
- 4-channel 4/8ohm speaker outputs
- GPIO and Relay support for automation of screens, occupancy etc;.
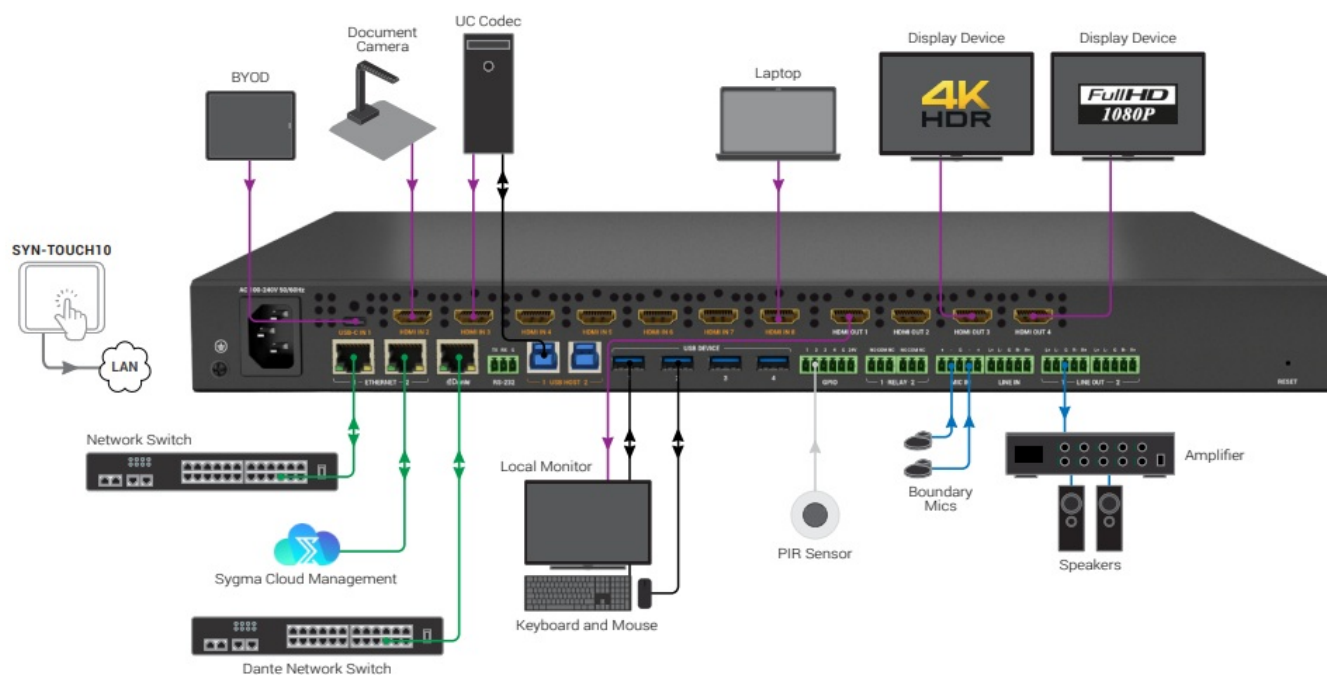
Port Descriptions

Number	Port Name	Description
1	Grounding Screw	Shields the matrix from EMI/RFI and static discharge
2	Power Socket	AC 100-240V socket
3	USB-C Input	Supports 4K60 video, USB 3.0 host and 60watt charging
4	HDMI Inputs	HDMI 2.0, HDCP 2.3, auto switching, first-in last-out,
5	HDMI Outputs	Full scaler
6	Ethernet Ports	TCP/IP control and cloud monitoring
7	Dante Output	Dante Ultimo 4×4
8	RS-232 Control	RS-232 switcher control via control system

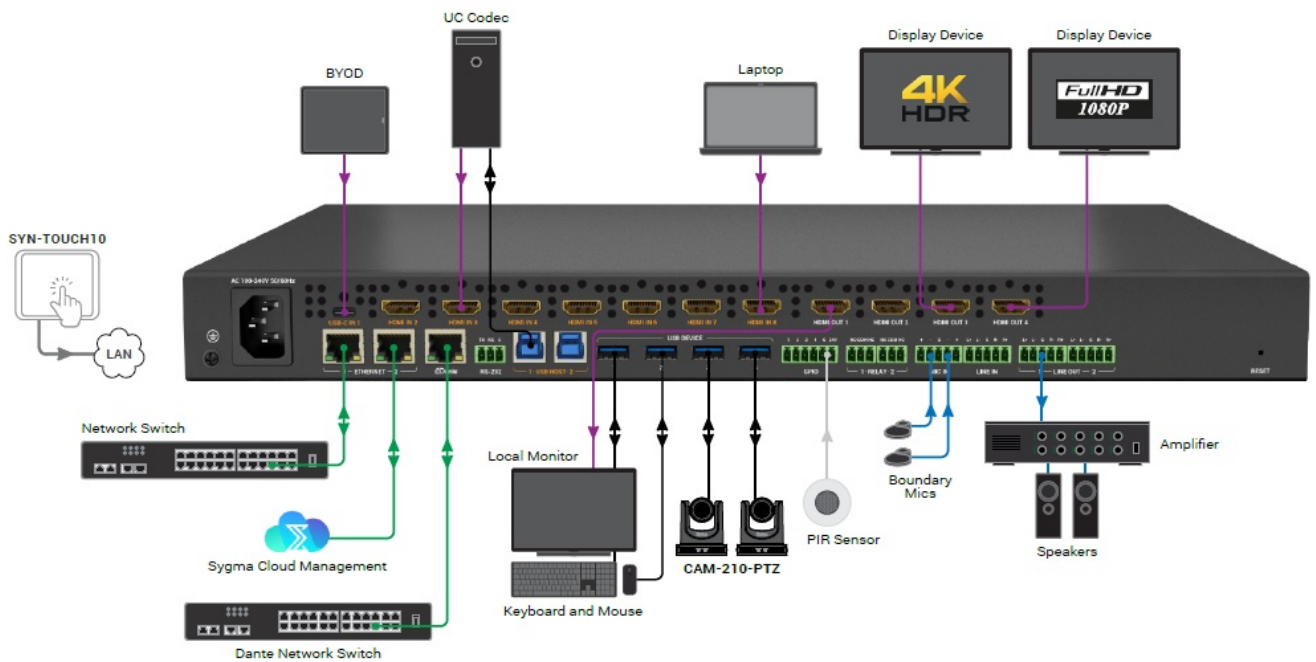| Number	Port Name	Description
9	USB Host	USB 3.0. supports host switching
10	USB Device	USB 3.0 Connect cameras, mice, keyboards, Flash memory. Which ever host is selected will access these ports
11	GPIO	Occupancy sensor
12	Relays	x2 relay, shades, screens etc
13	Microphone Input	Phantom power, noise filtering, gain adjustment
14	Line Input	Gain adjustment, noise filtering, true differential signal
15	Line Out	Volume control, noise cancellation
16	Reset Pin Hole	Factory defaults matrix settings

Wiring Diagram

Local Presentation

KEY

Large Lecture Hall

KEY

- 🟣 HDMI/USB-C
- 🟢 Ethernet
- ⚪ Control
- 🔵 Analog Audio
- ⚫ USB

Corporate Unified Communications

KEY

- 🟣 HDMI/USB-C
- 🟢 Ethernet
- ⚪ Control
- 🔵 Analog Audio
- ⚫ USB

Audio and Video
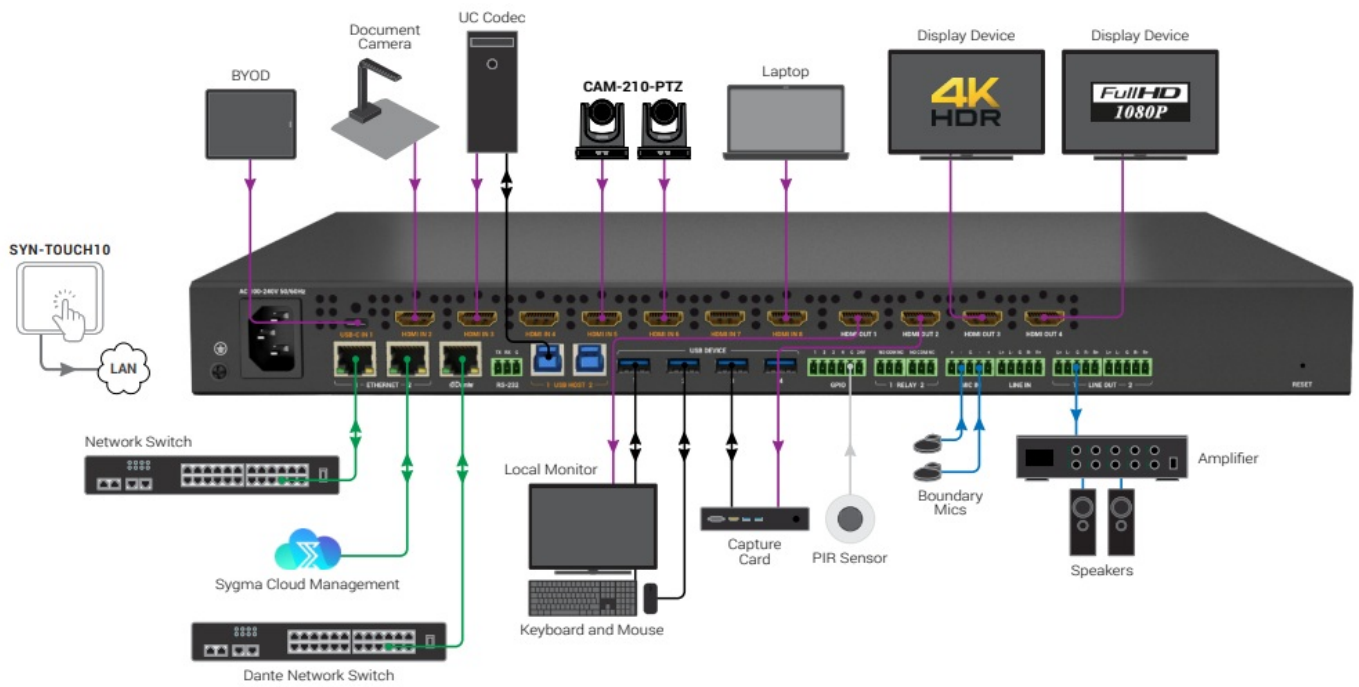
Inputs	1x USB-C In with Alt-Mode 7x HDMI In: 19-pin type A 2x USB-B Host
Outputs	4x HDMI Out: 19-pin type A 4x USB-A Device 4x GPIO Phoenix Port 2x Relay Phoenix Port
Output Video Encoding	HDMI
Encoding Data Rate	18Gbps
Audio Formats	PCM 2ch Analog
Video Resolution (Max)	1920x1080p @60Hz 3840x2160p @60Hz 4:2:0 4096×2160 @60Hz 4:4:4
Maximum Pixel Clock	HDMI: 600MHz
Communication and Control	
HDMI	HDMI 2.0 | HDCP 2.2 | EDID
Dante Ultimo 2×2	1x 1GbE RJ-45
RS-232	1x RS-232: 3-pin Phoenix Female | Matrix Control Routable RS-232 Device Control | Telnet commands supported (TCP to RS-232 translation only)
Ethernet	2x LAN: 8-pin RJ-45 Female | Web UI | Matrix Control and Ethernet
Power	
Power Supply	100~240V AC 50/60Hz
Max Power Consumption	
Environmental	
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Maximum BTU	
Dimensions and Weight	
Rack Units/Wall Box	1U

Height	43.5mm/1.72in
Width	440mm/17.33in
Depth	300mm/11.82in
Weight	
Regulatory	
Supported Standards	DCI (4096×2160) | RGB | HDR | HDR10 | Dolby Vision | HLG | BT.2020

Warranty Information

WyreStorm Technologies 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 **wyrestorm.com** for more details on our limited product warranty.

Documents / Resources

WyreStorm MX-0804-EDC 8x4 Multi Input Matrix Switcher [pdf] User Guide
MX-0804-EDC 8x4 Multi Input Matrix Switcher, MX-0804-EDC, 8x4 Multi Input Matrix Switcher, Multi Input Matrix Switcher, Input Matrix Switcher, Matrix Switcher, Switcher

References

- **WyreStorm - Professional Audio Visual Solution Provider**
- **User Manual**