8x4 Multi-Input Matrix

MX-0804-EDC

WyreStorm

Quickstart Guide

💡 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 4x4 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;.
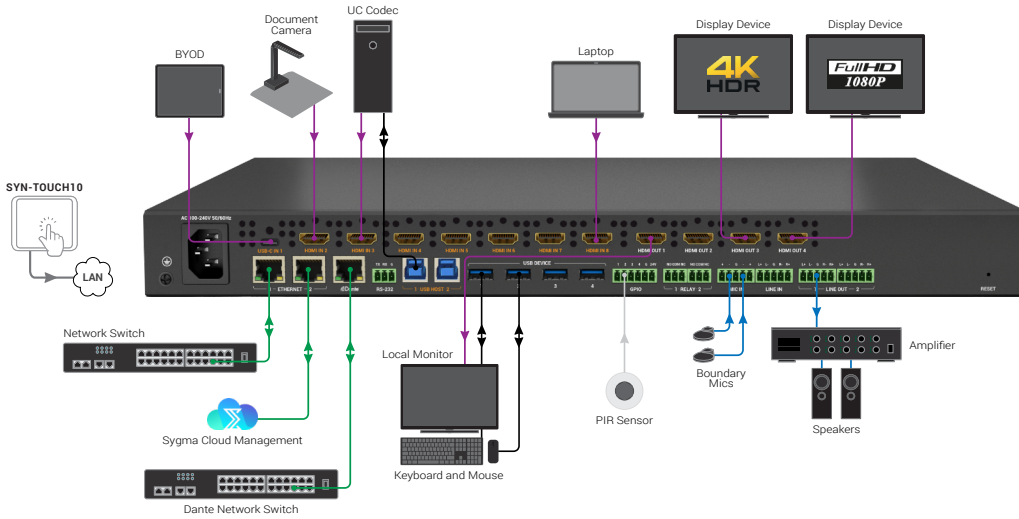
Port Descriptions
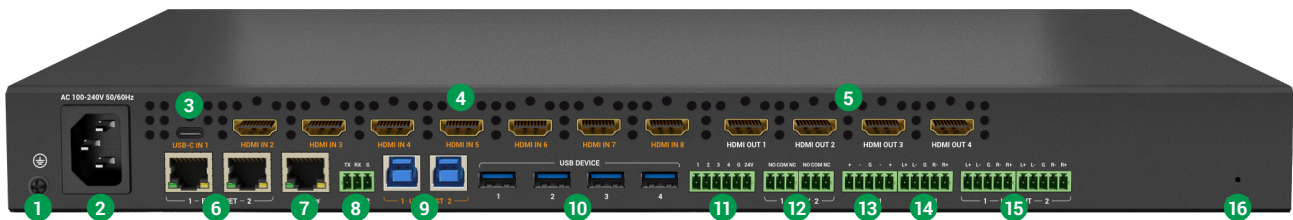
Number	Port Name	Description
1	Grounding Screw	Shields the matrix from EMI/RFI and static discharge
2	Power Socket	AC 100-240V socket
3	USB-C Input	Supports 4K60 video, USB 3.0 host and 60watt charging
4	HDMI Inputs	HDMI 2.0, HDCP 2.3, auto switching, first-in last-out,
5	HDMI Outputs	Full scaler
6	Ethernet Ports	TCP/IP control and cloud monitoring
7	Dante Output	Dante Ultimo 4x4
8	RS-232 Control	RS-232 switcher control via control system

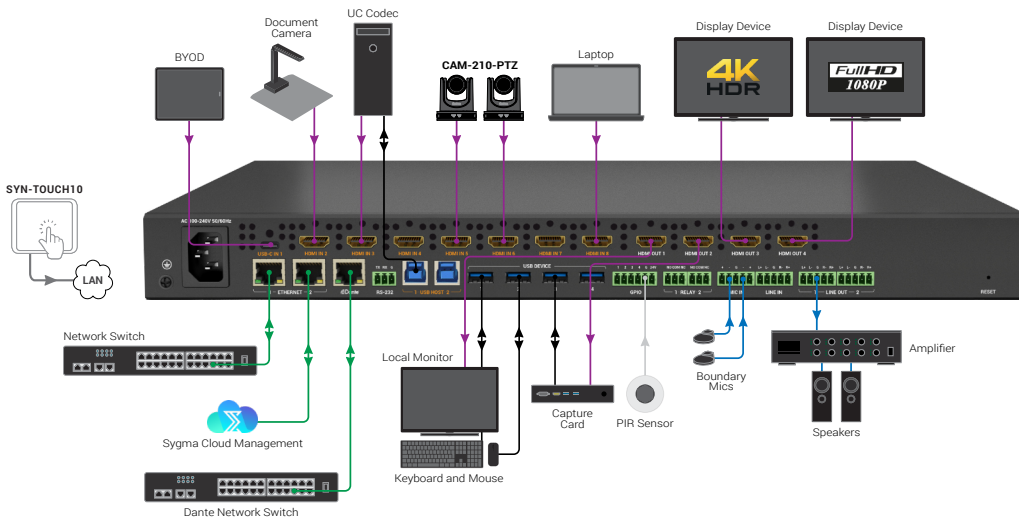| Number	Port Name	Description
9	USB Host	USB 3.0. supports host switching
10	USB Device	USB 3.0 Connect cameras, mice, keyboards, Flash memory. Which ever host is selected will access these ports
11	GPIO	Occupancy sensor
12	Relays	x2 relay, shades, screens etc
13	Microphone Input	Phantom power, noise 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

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Wiring Diagram

Local Presentation

KEY
- ● HDMI/USB-C
- ● Control
- ● USB
- ● Ethernet
- ● Analog Audio

Wiring Diagram

Large Lecture Hall

KEY
- ● HDMI/USB-C
- ● Control
- ● USB
- ● Ethernet
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Wiring Diagram

Corporate Unified Communications

KEY
- ● HDMI/USB-C
- ● Control
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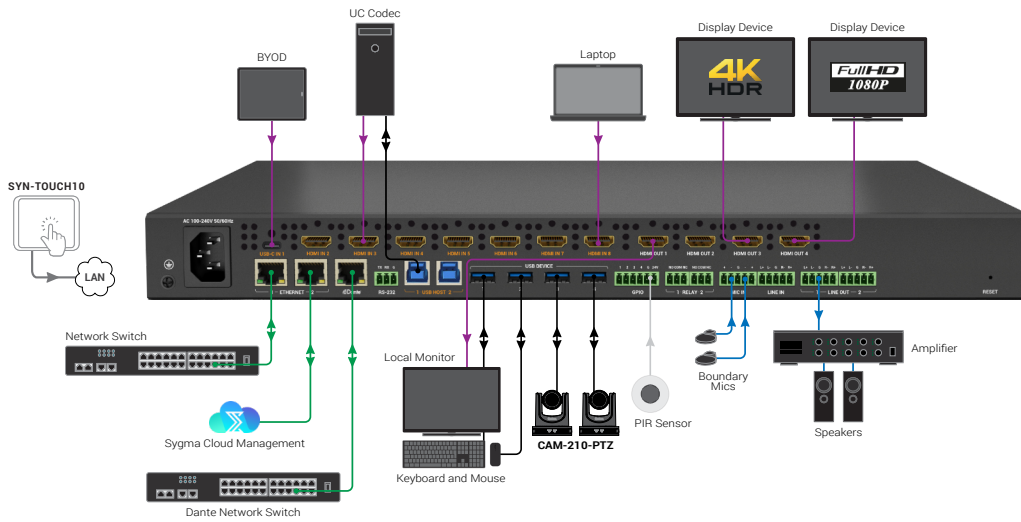
Audio and Video	
Inputs	1x USB-C In with Alt-Mode 7x HDMI In: 19-pin type A 2x USB-B Host
Outputs	4x HDMI Out: 19-pin type A 4x USB-A Device 4x GPIO Phoenix Port 2x Relay Phoenix Port
Output Video Encoding	HDMI
Encoding Data Rate	18Gbps
Audio Formats	PCM 2ch Analog
Video Resolution (Max)	1920x1080p @60Hz 3840x2160p @60Hz 4:2:0 4096x2160 @60Hz 4:4:4
Maximum Pixel Clock	HDMI: 600MHz
Communication and Control	
HDMI	HDMI 2.0 | HDCP 2.2 | EDID
Dante Ultimo 2x2	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 (4096x2160) | 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.