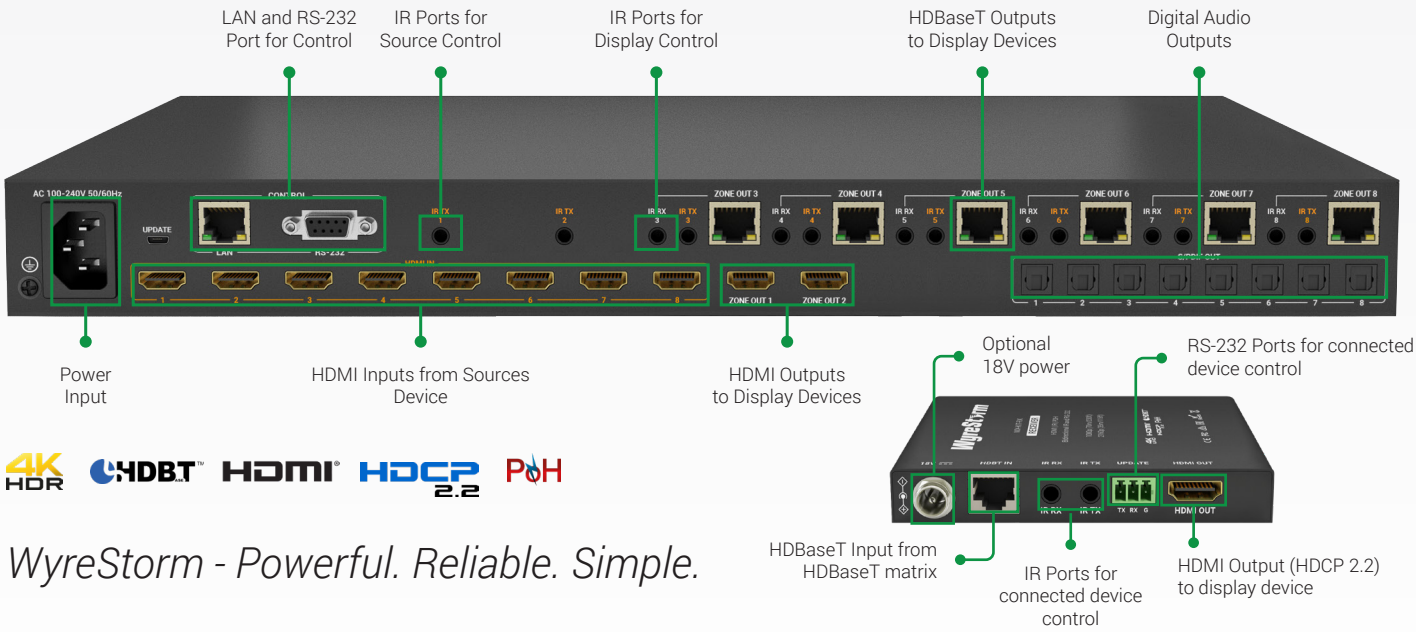
4K UHD 4:2:0 60Hz 4x4 HDBaseT™ Matrix Switch with 3/6 Receivers & S/PDIF De-Embed

MX-0404-KIT | MX-0808-KIT

WyreStorm

Specification Sheet



WyreStorm - Powerful. Reliable. Simple.

Introduction

Offering transmission of HDMI content up to 4K UHD & HDR content to 35m/115ft, pairing HDBaseT with WyreStorm's powerful crosspoint HDMI switching chipset. The MX-0404-KIT and MX-0808-KIT has HDBaseT zone outputs with PoH and switched HDMI outputs which can be paired with WyreStorm's HAOC hybrid optical HDMI cables or any extender for transmission via HDBaseT or OM3 fibre. They don't stop there, offering zone audio breakout via S/PDIF, CEC triggering for all connected screens and the A/V mute function enhances the offering for the modern home or commercial installation.

Key Features

- 4K UHD HDBaseT™ Matrix Switch supporting:
  - Content up to 4K/60 4:2:0 8-bit or 4K/30 4:2:0 10-bit
  - The latest HDR standards, including 30Hz HDR-10 & Dolby Vision
  - HDCP 2.2 encryption technology ensuring compatibility with the latest 4K UHD content and sources
  - HD Multichannel audio up to DTS:X and Dolby Atmos to all outputs
- True matrix with HDBaseT zones and witched HDMI outputs
- HDBaseT enables 60Hz 4K UHD content (8-bit) to be sent over HDBaseT to 35m/115ft
- Compatible with DVI-I and DP++ v1.3 signals from compatible devices (up to 9Gbps or 4K/30)
- 8 assignable Toslink outputs allow audio to be independently de-embedded from outputs or inputs
- Automatic (signal sensing) or manual (API operated) CEC power triggering of all connected screens or projectors (CEC compatibility required)
- A/V Mute function gives complete distribution control to a user allowing the signal to any zone to be independently switched off
- SmartEDID feature also dynamically detects display/source capabilities and automatically outputs the highest possible resolution
- Additional EDID management through DIP switches for global setting or via WebUI for independent management of EDID per source
- Embedded WyreStorm WebUI enables simple installer set-up & configuration
- WebUI includes full EDID management to copy EDID from connected devices
- Independent user control interface with separate password-protected installer settings
- Personalise switching interface with source and output labelling
- Hide unused I/O for cleaner appearance and navigation
- Assign a different EDID to each connected source device
- API triggered standby mode puts unit into low power state during downtime
- Flexible control options – front panel buttons, infrared remote control, local IR, RS-232, Telnet or WebUI
- Simple switching matrix remote control included, which can also be learned into a universal remote handset to allow the control of multiple devices from one handset
- 2-way IR for far-end device control from control system or source control from a zone.
- Compact 1U chassis with adjustable depth rack mounting brackets included
- US, UK, EU & AU Power cables included
- Can be combined with WyreStorm EXP-CON-DAC-D digital audio converter to downmix Dolby Digital 5.1 content to mix stereo and surround sound zones
- Transmit content from HDMI outputs 1&2 up to 50m/164ft using a WyreStorm HAOC HDMI cable

In the Box

1x MX-0x0x-KIT Matrix
3/6x MX-KIT-RX Receivers
1x AC Power Cord (US/UK/EU/AU)
1x IR Remote (Battery not Included)
4/8x IR Emitters
3/6x IR Receivers
2x Matrix Mounting Brackets
6/12x Receiver Mounting Brackets (2 per RX)
1x Quickstart Guide

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Specifications

	MX-0404-KIT	MX-0808-KIT	Receivers
Audio and Video			
Inputs	4x HDMI In: 19-pin type A	8x HDMI In: 19-pin type A	1x HDBT In: 8-pin RJ-45 Female
Outputs	4x S/PDIF Out: RCA Female 3x HDBT Out: 8-pin RJ-45 Female 1x HDMI Out: 19-pin type A	8x Optical Audio Out: Toslink Female 6x HDBT Out: 8-pin RJ-45 Female 2x Switched HDMI Out: 19-pin type A	1x HDMI Out: 19-pin type A
Output Video Encoding	HDBaseT Class B		
Encoding Data Rate	9.2Gbps		
End to End Latency (Max)	10µs (micro seconds)		
Audio Formats	S/PDIF: 2ch LPCM | Dolby Digital/DTS up to 5.1ch HDMI: 2ch LPCM | Multichannel up to Dolby Atmos and DTS-X		
Supported Standards	DCI (4096x2160) | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100		
Video Resolutions (Max)	**Video Resolution**	**HDMI**	**Cat6** / **Cat6a/7**
	1920x1080p @60Hz 12bit	15m/49ft	60m/197ft / 70m/230ft
	1920x1080p @60Hz 16bit	7m/23ft	35m/115ft / 40m/131ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	15m/49ft	60m/197ft / 70m/230ft
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft	35m/115ft / 40m/131ft
	3840x2160p @60Hz 8bit 4:2:0	7m/23ft	35m/115ft / 40m/131ft
	Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference		
Maximum Pixel Clock	HDBaseT: 340MHz		
Communication and Control			
HDMI	HDMI 2.0 | HDCP 2.2 | EDID | CEC | DVI/D supported with adapter (not included)		
HDBaseT	HDMI 2.0 | HDCP 2.2 | EDID | CEC | 1-way PoH | Bidirectional IR		
Consumer Electronics Control (CEC)	CEC power triggering for connected screens – Requires CEC compatibility		
IR	3x IR RX: 3.5mm (1/8in) TRS Stereo 4x IR TX: 3.5mm (1/8in) TS Mono Bidirectional over HDBaseT	6x IR RX: 3.5mm (1/8in) TRS Stereo 8x IR TX: 3.5mm (1/8in) TS Mono Bidirectional over HDBaseT	1x IR TX: 3.5mm (1/8in) TS Mono 1x IR RX: 3.5mm (1/8in) TRS Stereo Bidirectional over HDBaseT
RS-232	1x RS-232: 9-pin DB9 Female (matrix control only)		1x RS-232: 3-pin Terminal Block - 3.5mm (update only)
Ethernet	1x LAN: 8-pin RJ-45 Female		NA
Power			
Power Supply	100~240V AC 50/60Hz		18V DC (Optional)
PoH	1-way Matrix to Receiver		
Max Power Consumption	48.2W	109.5W	4.5W with External PSU 5W via PoH
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	164 BTU/hr	374 BTU/hr	15.4 BTU/hr with External PSU 17 BTU/hr via PoH
Dimensions and Weight			
Rack Units/Wall Box	1U		<1U
Height	43.5mm/1.72in		15.2mm/0.6in
Width	440mm/17.33in		136.4mm/5.38in
Depth	300mm/11.82in		74.2mm/2.93in
Weight	4.06kg/8.93lbs		0.24kg/0.53lbs
Regulatory			
Safety and Emission	CE | FCC | RoHS | RCM | EAC		