4K UHD HDBaseT™ Matrix Switchers with Included Receivers & Audio Breakout
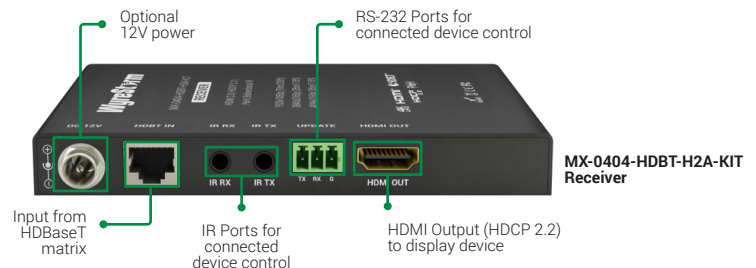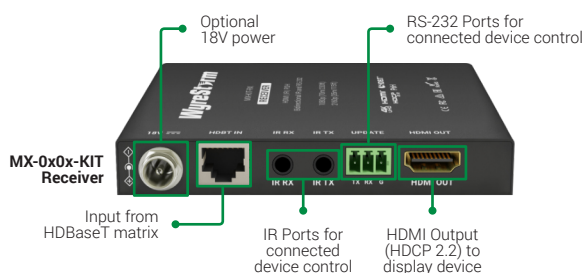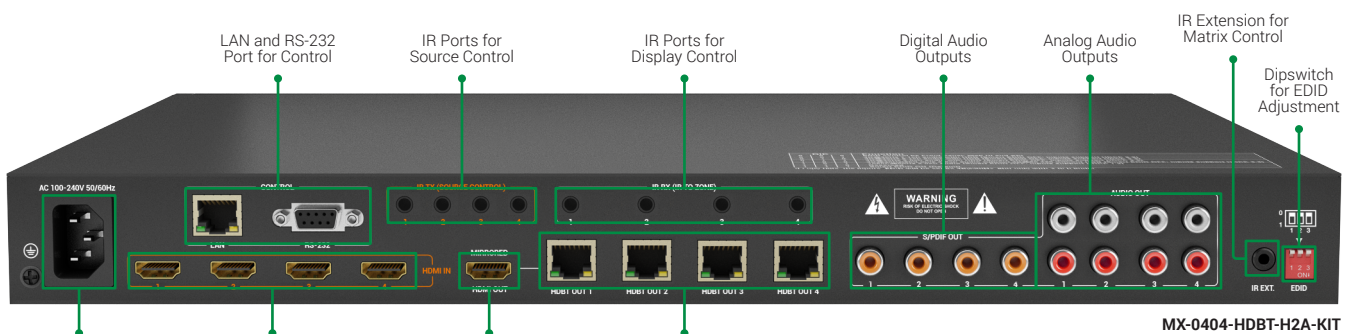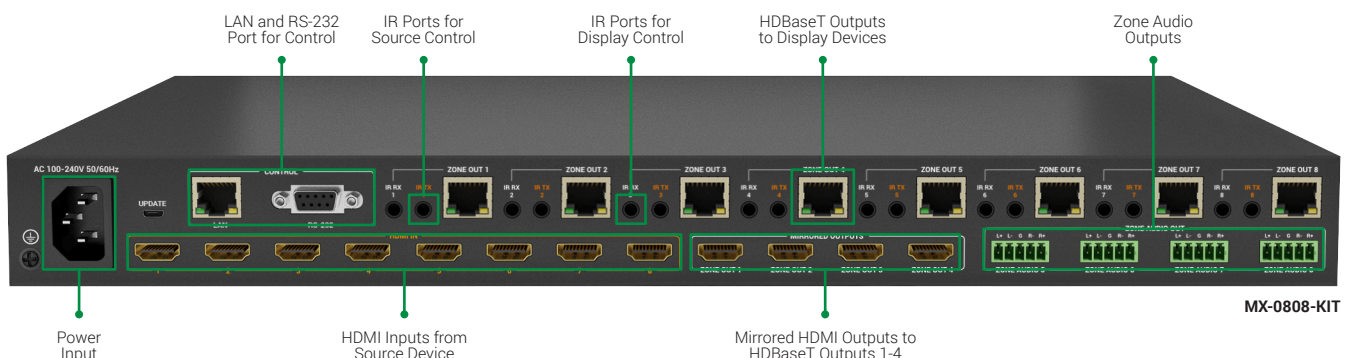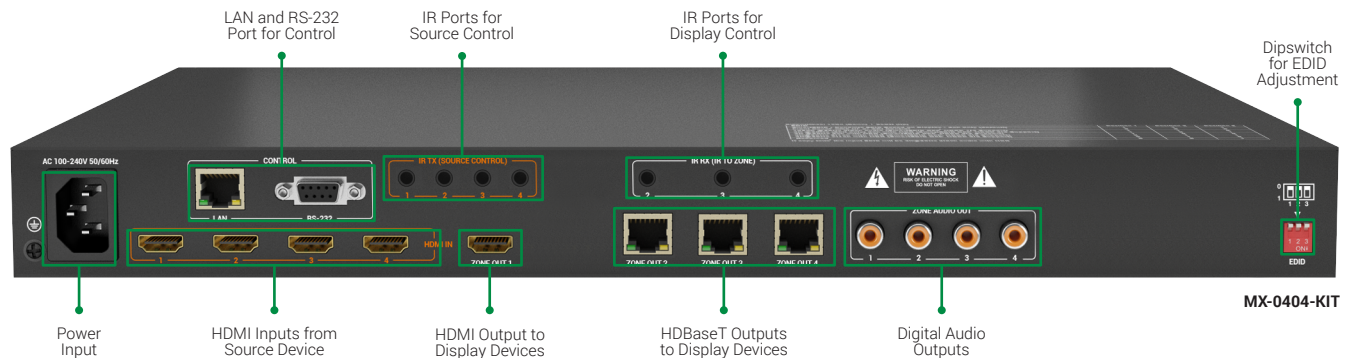
MX KIT Full Product Range

WyreStorm®

Specification Sheet

4K UHD · HDBT™ · HDMI · HDCP 2.2 · PoH

WyreStorm - Powerful. Reliable. Simple.

MX-0404-KIT

- LAN and RS-232 Port for Control
- IR Ports for Source Control
- IR Ports for Display Control
- Dipswitch for EDID Adjustment
- Power Input
- HDMI Inputs from Source Device
- HDMI Output to Display Devices
- HDBaseT Outputs to Display Devices
- Digital Audio Outputs

MX-0808-KIT

- LAN and RS-232 Port for Control
- IR Ports for Source Control
- IR Ports for Display Control
- HDBaseT Outputs to Display Devices
- Zone Audio Outputs
- Power Input
- HDMI Inputs from Source Device
- Mirrored HDMI Outputs to HDBaseT Outputs 1-4

MX-0404-HDBT-H2A-KIT

- LAN and RS-232 Port for Control
- IR Ports for Source Control
- IR Ports for Display Control
- Digital Audio Outputs
- Analog Audio Outputs
- IR Extension for Matrix Control
- Dipswitch for EDID Adjustment
- Power Input
- HDMI Inputs from Source Device
- Mirrored HDMI Output to HDBaseT Output 1
- HDBaseT Output to displays

MX-0x0x-KIT Receiver

- Optional 18V power
- RS-232 Ports for connected device control
- Input from HDBaseT matrix
- IR Ports for connected device control
- HDMI Output (HDCP 2.2) to display device

MX-0404-HDBT-H2A-KIT Receiver

- Optional 12V power
- RS-232 Ports for connected device control
- Input from HDBaseT matrix
- IR Ports for connected device control
- HDMI Output (HDCP 2.2) to display device

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 switched 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
- Personalized 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.
- Multichannel audio up to 7.1 including DTS:X and Dolby Atmos
- Internal audio switching allows de-embedded audio from sources or HDBaseT™ output
- HDMI Inputs and Outputs support bandwidths of 18Gb/s
- Mirrored HDMI output allows connection of a local AVR, local screen or additional display over distance via an HDBaseT™ extender or Hybrid Active Optical Cable (CAB-HAOC-xx)
- PoH technology powers the receivers from the matrix
- CEC triggering of connected screens
- QuickSync™ technology for instant seamless I/O switching
- IR 3.5mm mini-jack ports for each output for IR emitters and IR receivers
- 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 (MX-0404-HDBT-H2A-KIT)

1x MX-0404-HDBT-H2A-KIT HDBaseT Matrix Switcher
4x Receivers
1x AC Power Cord (US/UK/EU)
1x IR Remote (Battery not Included)

4x IR Emitters
4x IR Receivers
1x IR Extension Cable
2x Matrix Mounting Brackets
8x Receiver Mounting Brackets (2 per RX)
1x Quickstart Guide (this document)

In the Box (MX-0x0x-KIT)

1x MX-0x0x-KIT Matrix
3/8x MX-KIT-RX Receivers
1x AC Power Cord (US/UK/EU/AU)
1x IR Remote (Battery not Included)

4/8x IR Emitters
3/8x IR Receivers
2x Matrix Mounting Brackets
6/16x Receiver Mounting Brackets (2 per RX)
1x Quickstart Guide (this document)

Specifications

	MX-0404-HDBT-H2A-KIT	MX-0404-KIT	MX-0808-KIT
Audio and Video			
Inputs	4x HDMI In: 19-pin type A	4x HDMI In: 19-pin type A	8x HDMI In: 19-pin type A
Outputs	1x HDMI In 19-pin type A 4x HDBaseT 8-pin RJ-45 4x S/PDIF Out: RCA 4x Analog Audio Out: RCA	4x S/PDIF Out: RCA 3x HDBT Out: 8-pin RJ-45 1x HDMI Out: 19-pin type A	8x HDBT Out: 8-pin RJ-45 4x 5-pin Balanced Analog Audio
Output Video Encoding	HDBaseT Class B		
Encoding Data Rate	9.2Gbps		
End to End Latency (Max)	10µs (micro seconds)		
Audio Formats	HDMI/HDBaseT: 2ch LPCM | Multichannel up to Dolby Atmos and DTS-X Analog Output: 2ch PCM		
Supported Standards	DCI | RGB | HDR10 | HLG | BT.2020		
Video Resolution (Max)	**Video Resolution**		
	1920x1080p @60Hz 16bit		
	3840x2160p @24Hz 10bit 4:2:0 HDR		
	3840x2160p @30Hz 8bit 4:4:4		
	3840x2160p @60Hz 8bit 4:2:0		
	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 | HDCP 2.2 | EDID | CEC		
HDBaseT	HDMI | HDCP 2.2 | EDID | CEC | 1-way PoH | Bidirectional IR		
Consumer Electronics Control (CEC)	CEC power triggering for connected screens – Requires CEC compatibility		
IR	1x IR Ext 3.5mm (1/8in) 4x IR TX 3.5mm (1/8in) 4x IR RX 3.5mm (1/8in) Stereo	3x IR RX: 3.5mm (1/8in) 4x IR TX: 3.5mm (1/8in)	8x IR RX: 3.5mm (1/8in) 8x IR TX: 3.5mm (1/8in)
RS-232	1x RS-232: 9-pin DB9 (matrix control only)	1x RS-232: 9-pin DB9 (matrix control only)	1x RS-232: 9-pin DB9 (matrix control only)
Ethernet	1x LAN: 8-pin RJ-45	1x LAN: 8-pin RJ-45	1x LAN: 8-pin RJ-45
Power			
Power Supply	100~240V AC 50/60Hz	100~240V AC 50/60Hz	100~240V AC 50/60Hz
PoH	1-way Matrix to Receiver		
Max Power Consumption	54W	48.2W	105.4W
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	184.25 BTU/hr	164 BTU/hr	374 BTU/hr
Dimensions and Weight			
Rack Units/Wall Box	1U	1U	1U
Height	43.5mm/1.72in	43.5mm/1.72in	43.5mm/1.72in
Width	440mm/17.33in	440mm/17.33in	440mm/17.33in
Depth	300mm/11.82in	300mm/11.82in	300mm/11.82in
Weight	4.06kg/8.93lbs	4.06kg/8.93lbs	4.06kg/8.93lbs
Regulatory			
Safety and Emission	CE | FCC | RoHS | RCM | EAC		

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MX KIT Full Product Range Specification Sheet | 220119
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