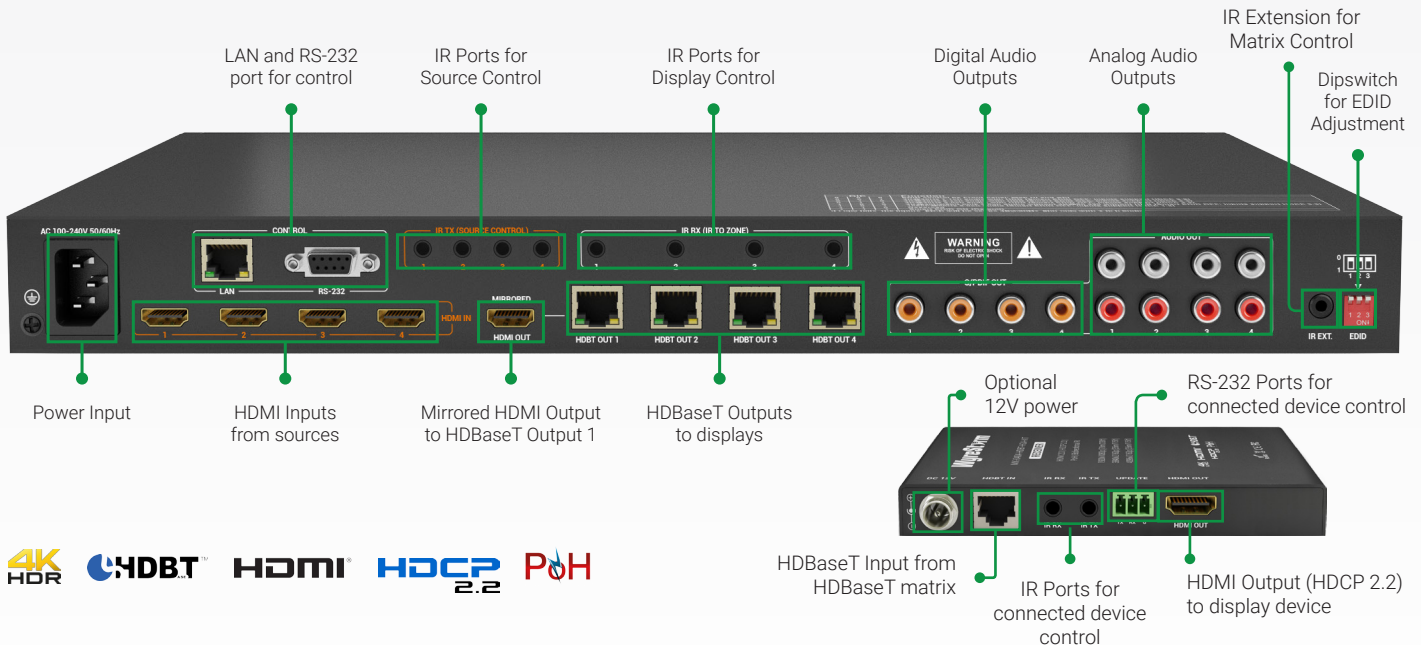


# 4x4 4K HDR HDBaseT™ Matrix with audio breakout & 4x PoH Receivers including HDCP 2.2 Support and SmartEDID

**MX-0404-HDBT-H2A-KIT**



## Specification Sheet



*WyreStorm - Because the Technology Matters.*

## Introduction

The latest in WyreStorm's 4x4 H2 matrix + PoH receiver kit line gets an audio upgrade in the form of the MX-0404-HDBT-H2A-KIT for 4K distribution with CEC triggering of connected screens and enhanced audio fit for the modern home.

The MX-0404-HDBT-H2A-KIT also lets you do even more with your audio with internal audio switching allowing de-embedded audio from sources or HDBaseT™ outputs and 4x S/PDIF and 4x analog stereo offering audio breakout from source or HDMI input.

## Key Features

- Independent switching and control of up to four 4K or HD HDMI sources to four individual 4K or HD HDMI display zones
- Supports transmission of the latest 4K 10-bit HDR content to 35m/115ft over Cat6 cable or 1080p/60Hz to 70m/230ft
- Latest HDCP 2.2 encryption technology supported ensuring compatibility with the latest 4K UHD content and sources
- Multichannel audio up to 7.1 including DTS:X and Dolby Atmos
- Internal audio switching allows de-embedded audio from sources or HDBaseT™ output
- Can be combined with WyreStorm EXP-CON-DAC-D digital audio converter to downmix 5.1 content if mixing stereo and surround sound zones (up to 1080p/2.2 source content only)
- 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
- SmartEDID™ removes conflict when mixing 1080p & 4K displays by dynamically detecting display/source capabilities and automatically outputting the highest possible resolution compatible with displays
- Additional EDID management through customizable DIP switch settings
- Flexible control options – front panel buttons, infrared remote control, local IR, RS-232, Telnet or WebUI
- Central RS-232 control compatible with WyreStorm Enado and other major third party control systems
- Embedded WebUI allows installer setup and configuration and provides switching interface
- Simple switching matrix remote control included
- IR 3.5mm mini-jack ports for each output for IR emitters and IR receivers
- Conforms to IEEE-568B standards
- Stylish chassis design with laser-engraved aluminium front fascia and blue LED I/O display

## In the Box

1x MX-0404-HDBT-H2-KIT HDBaseT Matrix Switcher  
 4x HDBaseT PoH display receivers  
 1x Handheld IR Remote  
 4x Wide-band IR TX Emitter  
 4x Wide-band IR RX Receiver (30-50KHz)

1x 100~240V AC Power Supply (US | EU | UK)  
 1x USB to UART Serial Cable  
 2x Mounting Brackets (matrix)  
 8x Mounting brackets (receivers)  
 1x Quickstart Guide

# Specifications

| Audio and Video                      |  |   |           |           |
|--------------------------------------|--|---|-----------|-----------|
|                                      | Matrix   | Receiver  |           |           |
| <b>Inputs</b>                        | 4x HDMI 19-pin type A female   | 1x HDBaseT 8-pin RJ-45 female   |           |           |
| <b>Outputs</b>                       | 4x HDBaseT 8-pin RJ-45 female<br>4x S/PDIF Out RCA Digital Coax<br>4x Audio Out Stereo Pairs RCA Analog Coax (Audio from Source or HDMI Output)                            | 1x HDMI 19-pin type A female  |           |           |
| <b>Audio Formats</b>                 | HDMI/HDBaseT: 2ch PCM   Multichannel: LPCM and Up to DTS-X and Dolby Atmos<br>S/PDIF: 2ch PCM   Multichannel: Up to 5.1 DTS and Dolby Digital<br>Analog: 2ch Analog        |   |           |           |
|                                      | Resoluton  | HDMI  | Cat6      | Cat6a/7   |
| <b>Video Resolutions (Max)</b>       | 1920x1080p @60Hz 12bit   | 15m/49ft  | 70m/230ft | 70m/230ft |
|                                      | 1920x1080p @60Hz 16bit   | 7m/23ft   | 35m/115ft | 35m/115ft |
|                                      | 3840x2160p @30Hz 4:4:4 8bit  | 7m/23ft   | 35m/115ft | 35m/115ft |
|                                      | 3840x2160p @24Hz 4:2:0 HDR 10bit   | 3m/9.8ft  | 35m/115ft | 35m/115ft |
|                                      | 4096x2160p @60Hz 8bit 4:2:0  | 7m/23ft   | 35m/115ft | 35m/115ft |
|                                      | 4096x2160p @60Hz 8bit 4:4:4  | 7m/23ft   | N/A       | N/A       |
| <b>Color Depth</b>                   | 1080p: 16bit   4K UHD: 8bit   HDR @24p: 10bit BT.2020  |   |           |           |
| <b>Maximum Pixel Clock</b>           | HDMI: 600mHz   HDBaseT: 297mHz   |   |           |           |
| Communication and Control            |  |   |           |           |
| <b>HDMI</b>                          | HDMI   HDCP 2.2   EDID   CEC   DVI-D with adapter (not included)   |   |           |           |
| <b>HDBaseT</b>                       | HDMI   HDCP 2.2   EDID   CEC   1-way PoH to receiver   Bidirectional IR  |   |           |           |
|                                      | Matrix   | Receiver  |           |           |
| <b>IR</b>                            | 1x Front Panel IR Sensor<br>1x IR Ext 3.5mm (1/8in) TRS Stereo   Matrix Control<br>4x IR TX 3.5mm (1/8in) TS Mono<br>4x IR RX 3.5mm (1/8in) Stereo   Transmits via HDBaseT | 1x IR TX 3.5mm (1/8in) TS Mono<br>1x IR RX 3.5mm (1/8in) Stereo   Transmits via HDBaseT |           |           |
| <b>RS-232</b>                        | Matrix Only: 1x 9-pin DB9 Female   Matrix Control (Telnet commands supported)  |   |           |           |
| <b>Ethernet</b>                      | Matrix Only: 1x 8-pin RJ-45 female   10/100 Mbps auto-negotiating   Built-in Web UI   IP Control   |   |           |           |
| Power                                |  |   |           |           |
| <b>Power Supply</b>                  | 100~240V AC 50/60Hz  |   |           |           |
| <b>Max Power Consumption</b>         | 70W  |   |           |           |
| <b>PoH</b>                           | 48V 15.4W (each HDBT output)   |   |           |           |
| Environmental                        |  |   |           |           |
| <b>Operating Temperature</b>         | 32°F ~ 113°F (0°C ~ 45°C)   10% ~ 90%, non-condensing  |   |           |           |
| <b>Storage Temperature</b>           | -4°F to ~ 158°F (-20°C ~ +70°C)   10% ~ 90%, non-condensing  |   |           |           |
| <b>Maximum BTU</b>                   | 239 BTU/hr   |   |           |           |
| Dimensions and Weight                |  |   |           |           |
|                                      | Matrix   | Receiver  |           |           |
| <b>Rack Units   Wall Box</b>         | 1U   | 0.34U   |           |           |
| <b>Height With   Without Feet</b>    | 51.3mm/2.02in   43.5mm/1.72in  | N/A   15mm/0.6in  |           |           |
| <b>Width With   Without Brackets</b> | 482.6mm/19in   440mm/17.33in   | N/A   135mm/5.32in  |           |           |
| <b>Depth With   Without Handles</b>  | N/A   300.1mm/11.82in  | N/A   74.2mm/2.93in   |           |           |
| <b>Weight</b>                        | 4.96kg/10.91lbs  | 0.4kg/0.88lbs   |           |           |
| Regulatory                           |  |   |           |           |
| <b>Safety and Emission</b>           | CE   FCC   RoHS  |   |           |           |

# Right Product for the Right Application.

