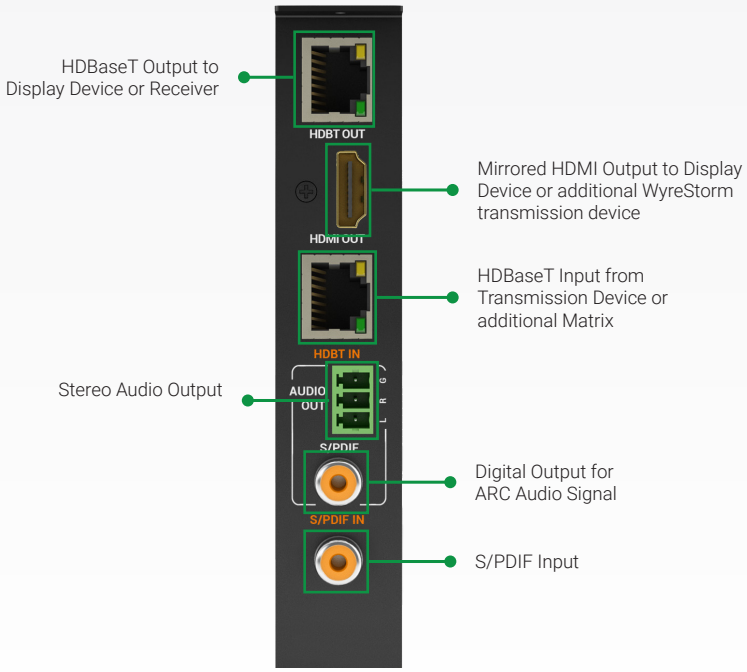
HDBaseT™ Input/Output and Mirrored HDMI Output with Audio Input and DSP Output (4K: 70m/230ft | 1080p: 100m/328ft)

TX-H2X-HDBT

Specification Sheet



WyreStorm - Powerful. Reliable. Simple.

Introduction

De-centralize sources connected to the H2X matrix platform with this HDBaseT™ input & output card. Accepting 4K UHD transmissions from 70m/230ft, this modular card allows source devices to be kept in-situ whilst making them part of the main distribution system.

Key Features

- HDBT Input - Enables the direct connection of a remote source to the matrix via an HDBaseT™ Transmitter only at the source location, rather than an HDBaseT™ extender set previously required to distribute a remote signal over distance to a matrix. The matrix will then route the remote source signal as it does with any locally connected source.
- HDBaseT™ Output- Transmitting Class A HDBaseT™ which includes video, audio, control and power up to 70m/230ft of 4K and 100m/328ft of 1080p
- HDMI Output - Mirrored to HDBaseT to allow additional connection of a local display device, AVR or to extend with a hybrid active optical HDMI cable (HAOC)
- Stereo Audio Output - Offering stereo audio breakout of a zone with a 3-pin phoenix connector for analog audio
- S/PDIF output supporting 5.1 audio content de-embedded from sources or ARC from connected zones
- S/PDIF Audio Input - Another way to inject digital audio to take advantage of the H2X platform's powerful audio matrix and DSP.

In the Box

- 1x TX-H2X-HDBT Modular Card

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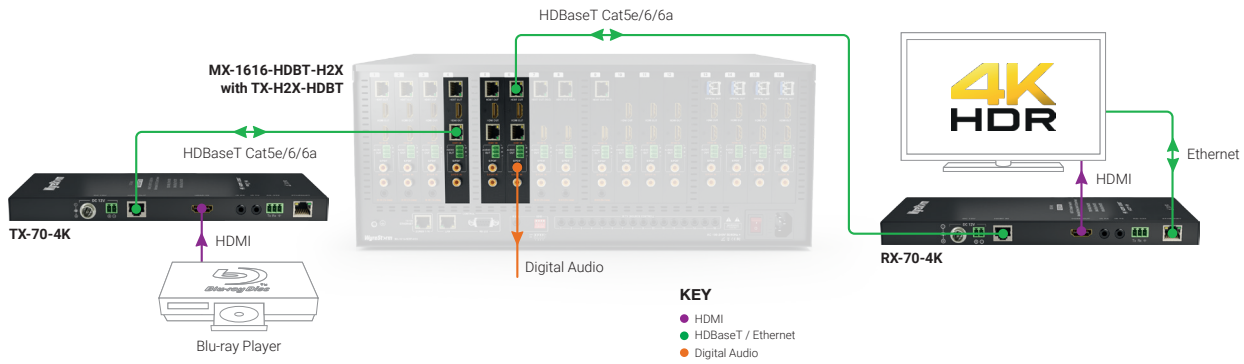
Specifications

Audio and Video				
Inputs	1x HDMI In19-pin type A | 1x S/PDIF In Coaxial Digital | 1x HDBaseT 8-pin RJ-45 female			
Outputs	1x HDBaseT 8-pin RJ-45 female | 1x S/PDIF Out Coaxial Digital | 1x Audio Out 3pin Phoenix Connector			
Output Video Encoding	HDBaseT Class A			
Encoding Data Rate	9.2Gbps			
End to End Latency	10µs (micro seconds)			
Audio Formats	2ch PCM | Multichannel: LPCM and Up to DTS-X and Dolby Atmos			
Video Resolutions (Max)	**Resoluton**	**HDMI**	**Cat6**	**Cat6a/7**
	1920x1080p @60Hz 12bit	15m/49ft	100m/328ft	100m/328ft
	1920x1080p @60Hz 16bit	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	3m/10ft	70m/230ft	100m/328ft
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 10bit 4:2:0 HDR	3m/10ft	N/A	N/A
	4096x2160p @60Hz 8bit 4:2:0	7m/23ft	70m/230ft	100m/328ft
	4096x2160p @60Hz 8bit 4:4:4	7m/23ft	N/A	N/A
Supported Standards	DCI | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100			
Maximum Pixel Clock	HDMI: 600mHz | HDBaseT: 297MHz			
Communication and Control				
HDMI	HDCP 2.2 | EDID | DVI-D supported with adapter (not included)			
HDBaseT	HDMI | HDCP 2.2 | EDID | 1-way PoH to Receiver | IR RX to Receiver			
Ethernet	From Matrix - No Connection on card | Bidirectional over HDBaseT			
RS-232	From Matrix - No Connection on card | Bidirectional over HDBaseT			
ARC (Audio Return Channel)	Returns audio from displays built-in applications via ARC HDMI Input over HDBaseT (Requires ARC or SCL Receiver)			
Power				
Power Supply	Internal to Matrix			
PoH	48V 15.4W			
Max Power Consumption	Matrix Dependent			
Environmental				
Operating Temperature	Matrix Dependent			
Storage Temperature	Matrix Dependent			
Maximum BTU	Matrix Dependent			
Regulatory				
Safety and Emission	Matrix Dependent			

Right Product for the Right Application.