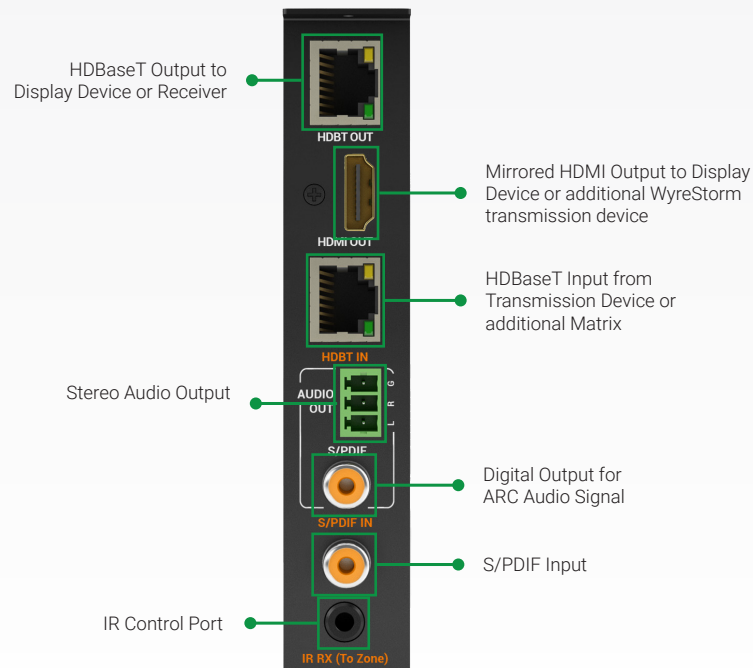# HDBaseT™ Input/Output and Mirrored HDMI Output with Audio Input, DSP Output and IR to zone (4K: 70m/230ft | 1080p: 100m/328ft)

TX-H2X-HDBT

WyreStorm

Specification Sheet

HDBaseT Output to Display Device or Receiver

HDBT OUT

Mirrored HDMI Output to Display Device or additional WyreStorm transmission device

HDMI OUT

HDBaseT Input from Transmission Device or additional Matrix

HDBT IN

Stereo Audio Output

AUDIO OUT

S/PDIF

Digital Output for ARC Audio Signal

S/PDIF IN

S/PDIF Input

IR Control Port

IR RX (To Zone)

WyreStorm - Because the Technology Matters.

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.
- IR RX - Allows control signals to be sent to the sink device

In the Box

- 1x TX-H2X-HDBT Modular Card

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

	Resoluton	HDMI	Cat6	Cat6a/7
Video Resolutions (Max)	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
IR	1x IR RX 3.5mm (1/8in) TRS Stereo	To Receiver 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.