18Gbps HDMI-Over-HDBaseT™ Modular Card for H2X Matrix with Audio DSP (2160p 4:4:4/60: 70m/230ft | 1080p: 100m/328ft)
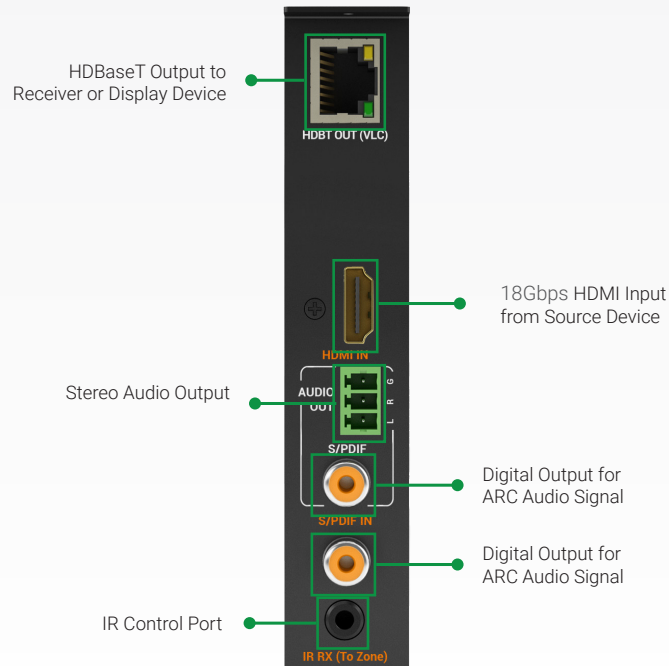
TX-H2X-VLC

WyreStorm®

Specification Sheet

HDBaseT Output to Receiver or Display Device — HDBT OUT (VLC)

18Gbps HDMI Input from Source Device — HDMI IN

Stereo Audio Output — AUDIO OUT

Digital Output for ARC Audio Signal — S/PDIF IN

Digital Output for ARC Audio Signal

IR Control Port — IR RX (To Zone)

WyreStorm - Because the Technology Matters.

Introduction

Experience HDBaseT™ transmission turned up to 11 with WyreStorm's new 18Gbps HDMI solution. Never one to shy away from embracing new technology, we've been sending lossless native 24Hz HDR-10 content over HDBaseT™ since 2016. Now though, content is going above the capability of HDBaseT with HFR (High Frame Rate) HDR here already in the form of BluRay, Satellite & Cable (HLG) and gaming content. WyreStorm's H2X matrix is ready for this with our new light-compression transmission solution.

Key Features

- 18Gbps HDMI input
- VLC HDBaseT™ Output - Transmitting the full 18Gbps bandwidth that the current version of HDMI is capable of producing, which includes video, audio, control and power up to 70m/230ft of 2160p 4:4:4/60 and 100m/328ft of 1080p using VLC light-compression technology
- 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-VLC Modular Card

Specifications

Audio and Video	
Inputs	1x HDMI In: 19-pin type A | 1x S/PDIF In: S/PDIF Coaxial Digital
Outputs	1x Optical Out: SFP+ | 1x Audio Out: 3-pin Phoenix | 1x S/PDIF Out: S/PDIF Coaxial Digital
Output Video Encoding	HDBaseT Class A
Encoding Data Rate	9.2Gbps
End to End Latency	10µs (micro seconds)
Audio Formats	S/PDIF: 2ch PCM | Multichannel: Up to 5.1 DTS and Dolby Digital HDMI: 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	70m/230ft	100m/328ft
	4096x2160p @60Hz 8bit 4:2:0	7m/23ft	70m/230ft	100m/328ft
	4096x2160p @60Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft

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 Output over OM3 (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.

KEY
- HDMI
- HDBaseT / Ethernet
- Digital Audio