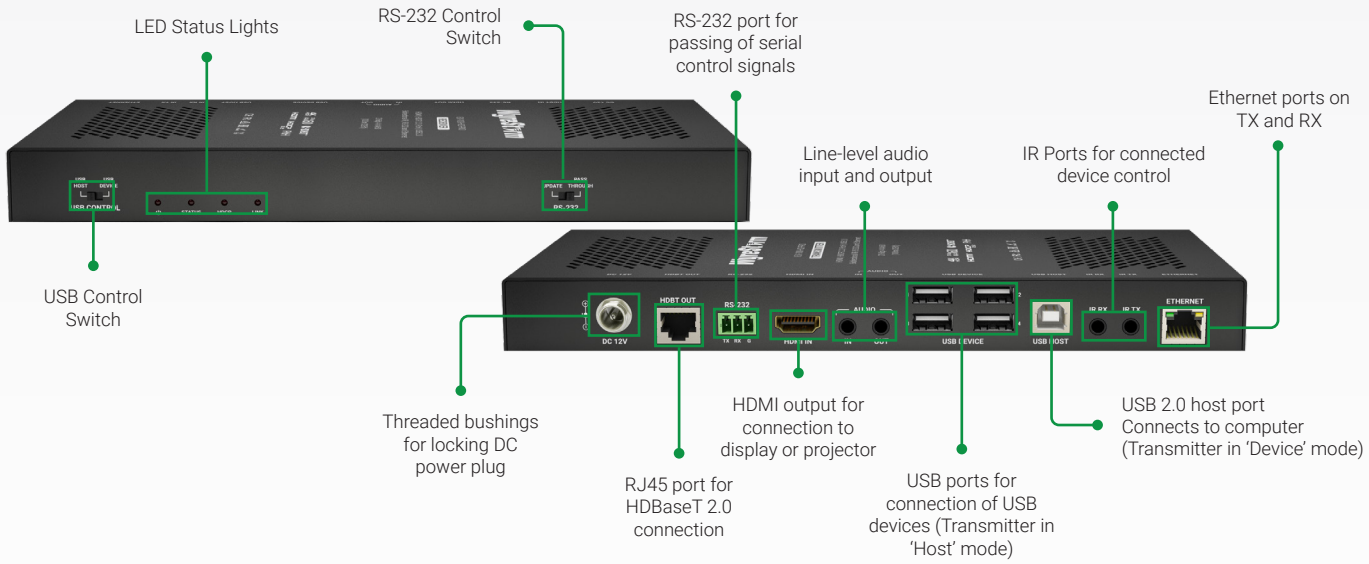
4K HDR 4:4:4 60Hz HDBaseT™ Extender with DSC Supporting USB.2.0 Client/host (4K: 100m/328ft)

EX-100-H2-PRO

WyreStorm

Specification Sheet



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Introduction

Utilizing the best in HDBaseT technology, the EX-100-H2-PRO uses the powerful 2.0 chipset for 5-Play functionality: 4K HDMI, USB, Ethernet, Control and Power over 100m/328ft of Cat 6 cable. Using DSC (display stream compression) the EX-100-H2-PRO can support HDMI video up to 2160p 4:4:4 at 60Hz (18Gbps) without any visual loss in quality or latency. With HID's and data transfer in mind, the EX-100-H2-PRO supports USB 2.0 devices at up to 480Mbps, catering for powerful webcams, smart whiteboards and flash drives alike. Also included is a dedicated 2-way audio lane for transmission of analog stereo audio signals from TX-RX and RX-TX.

Key Features

- Point-to-point HDBaseT Extender supporting:
  - Content up to 4K/60 4:4:4 & RGB 8-bit
  - The latest HDR standards, including HDR-10, HLG and Dolby Vision at 30Hz
  - 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
- Extends 2160p 4:4:4 or 4:2:2 12-bit HDR content from a source to a display or projector using HDBaseT up to 100m/328ft
- Automatically activated DSC lossless compression handles HDMI content up to 17.8Gbps
- HDMI Input and HDMI output supports bandwidths of up to 18Gbps
- Compatible with DVI-I and DP++ v1.3 signals from compatible devices
- Bidirectional USB 2.0 passthrough offering 480Mbps transfer and HID extension, with host and 4 device ports on both TX and RX
- 10/100 Ethernet port on both ends for extension of LAN to TX or RX
- Bidirectional audio lane separate to HDMI signal sends and receives analog audio signals at either end
- Bidirectional IR, RS-232 and CEC communication
- DIP Switch selection for direction of USB control, long cable mode and firmware update
- Backwards compatible with HDBaseT™ 1.0 transmission and receiving devices (lowest denominator takes priority)
- LED indication for power supply to units, signal status to show established display connection, HDCP presence in signal and transmission link
- 1-way PoH (Power over HDBaseT™) enables the receiver to be remotely powered by the transmitter
- Locking DC power jacks
- 12v DC PSU with US, UK, EU & AU Power cables included
- Mounting brackets included

In the Box

1x EX-100-H2-PRO Transmitter (TX)
1x EX-100-H2-PRO Receiver (RX)
1x IR Emitter
1x IR Receiver
2x 3-pin Terminal Block
4x Mounting Brackets
1x Quickstart Guide
1x 12V DC 3A Power Supply (US/UK/EU/AU)

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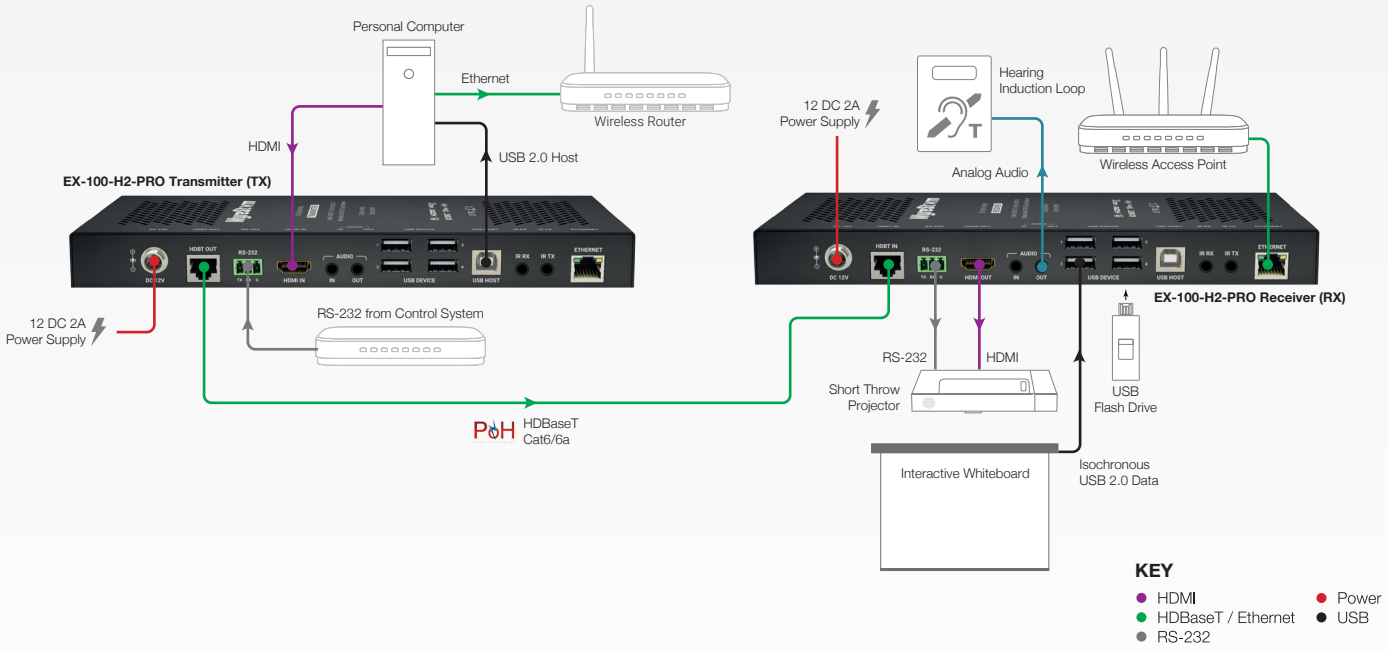
Specifications

Audio and Video				
	Transmitter		**Receiver**	
Inputs	1x HDMI In: 19-pin type A 1x Audio In: 3.5mm (1/8in) TRS Stereo		1x HDBT In: 8-pin RJ-45 Female 1x Audio In: 3.5mm (1/8in) TRS Stereo	
Outputs	1x HDBT Out: 8-pin RJ-45 Female 1x Audio Out: 3.5mm (1/8in) TRS Stereo		1x HDMI Out: 19-pin type A 1x Audio Out: 3.5mm (1/8in) TRS Stereo	
Output Video Encoding	HDBaseT Class C			
Encoding Data Rate	10.2Gbps			
End to End Latency	10µs (micro seconds)			
Audio Formats	2ch Analog/PCM | Multichannel: LPCM up to DTS-X and Dolby Atmos			
Video Resolutions (Max)	**Video Resolution**	**HDMI**	**Cat6**	**Cat6a/7**
	1920x1080p @120Hz 12bit	70m/230ft	70m/230ft	100m/328ft
	1920x1080p @60Hz 12bit	15m/49ft	100m/328ft	100m/328ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	15m/49ft	100m/328ft	100m/328ft
	3840x2160p @60Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 10bit 4:2:0 HDR	5m/16ft	70m/230ft	100m/328ft
	3840x2160p @60Hz 12bit 4:2:2 HDR	5m/16ft	70m/230ft	100m/328ft
	Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference.			
Supported Standards	DCI | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100			
Maximum Pixel Clock	HDMI: 600MHz | HDBaseT: 340MHz			
Communication and Control				
HDMI	HDMI | HDCP 2.2 | EDID | CEC Pass-through | DVI/D supported with adapter (not included) | DP++			
HDBaseT	HDMI | HDCP 2.2 | EDID | Audio | 1-way PoH (TX powers RX) | Bidirectional IR/RS-232/Ethernet | CEC			
Ethernet	1x Ethernet: 8-pin RJ-45 Female | Bidirectional over HDBaseT			
IR	1x IR RX: 3.5mm (1/8in) TRS Stereo | 1x IR TX: 3.5mm (1/8in) TS Mono (Transmitter and Receiver)			
RS-232	1x RS-232: 3-pin Phoenix (Transmitter and Receiver)			
USB	1x Type B (host) | 4x Type A (device) (Transmitter and Receiver) USB direction must be set using switch on both transmitter and receiver USB hub compatible | Maximum: 7 devices, 23 endpoints Maximum uplink speed: 190Mbps			
Power				
Power Supply	12V DC 3A			
Max Power Consumption	8.88W			
Environmental				
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) | 10% ~ 90%, non-condensing			
Storage Temperature	-4°F to ~ 158°F (-20°C ~ +70°C) | 10% ~ 90%, non-condensing			
Maximum BTU	30.30 BTU/hr			
Dimensions and Weight				
Rack Units | Wall Box	<1U			
Height With | Without Feet	21mm/0.83in			
Width With | Without Brackets	195mm/7.68in			
Depth With | Without Handles	94.8mm/3.74in			
Weight	0.36kg/0.79lbs			
Regulatory				
Safety and Emission	CE | FCC | RCM | EAC | RoHS			

Right Product for the Right Application.



Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.