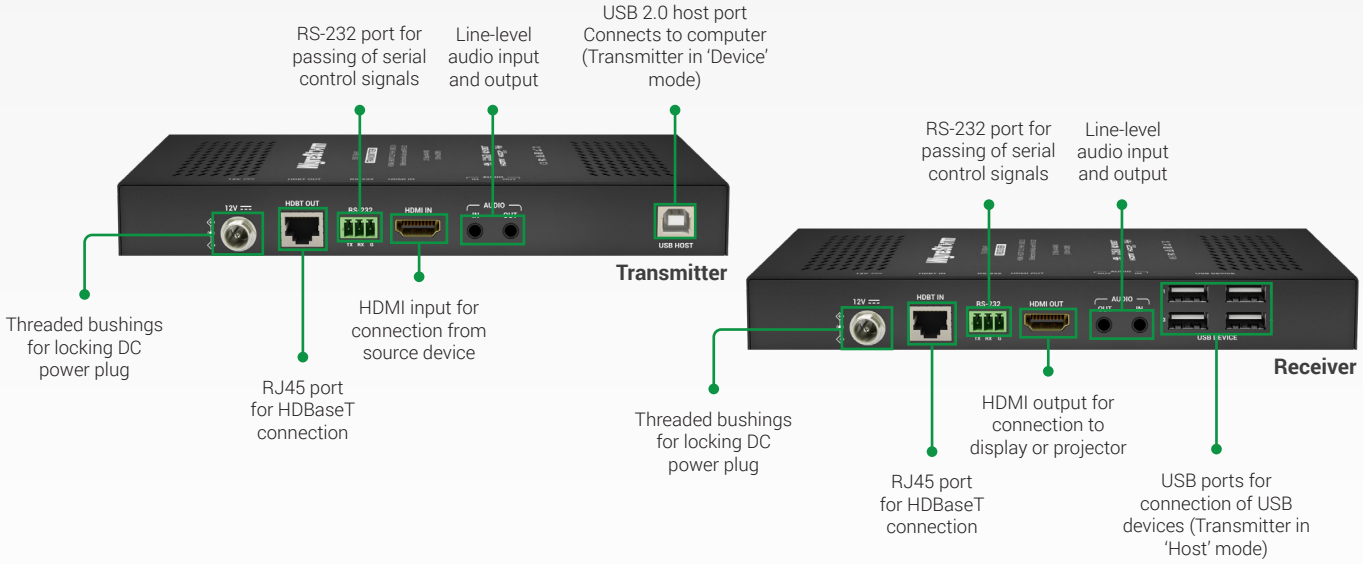
4K/60 4:2:0 HDR Extender with USB 2.0, Audio Passthrough & PoH

EX-100-H2

WyreStorm

Specification Sheet



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Introduction

The EX-100-H2 uses the powerful HDBaseT 2.0 chipset to send along 4K, USB, PoH and HD audio up to 100m/328ft with a single Cat 6 cable. This extender hosts the perfect combination of features to give you the tools you need to set up your next conference or presentation. With separate audio lanes, you're free to send audio independently to overlay your presentation.

With data transfers in mind, the EX-100-H2 is equipped with the fastest USB hardware HDBaseT is currently capable of; USB 2.0 and up to 190Mbps, which is everything you need to set up HD webcams, smart whiteboards, transfer data and so much more!

Key Features

- Supports the latest UHD resolutions including HDR10, HDR 10+, HLG and Dolby Vision formats
- Extend 4K@60Hz (4:2:0) content up to 100/328ft meters using Cat6a cabling or higher
- USB data transfers of up to 190Mbps for webcams and peripherals
- High-speed USB 2.0 pass-through up to 100 meters/328ft
- Supports full CEC passthrough via TV remote to control connected AV equipment such as AVR volume or menu navigation
- PoH allows the transmitter to power the receiver over category cable
- 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
- 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 Transmitter
1x EX-100-H2 Receiver
1x 12V DC 2A Power Supply (US/UK/EU/AU)
4x Mounting ears with screws
2x 3-pin phoenix connectors
1x QuickStart Guide

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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 @60Hz 12bit	7m/23ft	70m/230ft	100m/328ft
	3840x2160p @30Hz 8bit 4:4:4	15m/49ft	70m/230ft	100m/328ft
	3840x2160p @30Hz 12bit 4:2:2 HDR	5m/16ft	70m/230ft	100m/328ft
	3840x2160p @30Hz 8bit 4:4:4 HDR	7m/23ft	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	340MHz			
Communication and Control				
HDMI	HDMI | HDCP 2.2 | EDID | CEC Pass-through | DVI/D supported with adapter (not included)			
HDBaseT	HDMI | HDCP 2.2 | EDID | Line Audio | 1-way PoH (TX powers RX) | Bidirectional RS-232 | CEC			
RS-232	1x RS-232: 3-pin Phoenix (Transmitter and Receiver)			
USB	1x Type B (host) | 4x Type A (device) Maximum uplink speed: 190Mbps			
Power				
Power Supply	12V DC 2A			
Max Power Consumption	12W			
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	41 BTU/hr			
Dimensions and Weight				
Rack Units | Wall Box	<1U			
Height	21mm/0.83in			
Width	250mm/9.84in			
Depth	90.2mm/3.55in			
Weight	0.9kg/1.98lbs			
Regulatory				
Safety and Emission	CE | FCC | RCM | EAC | RoHS			

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