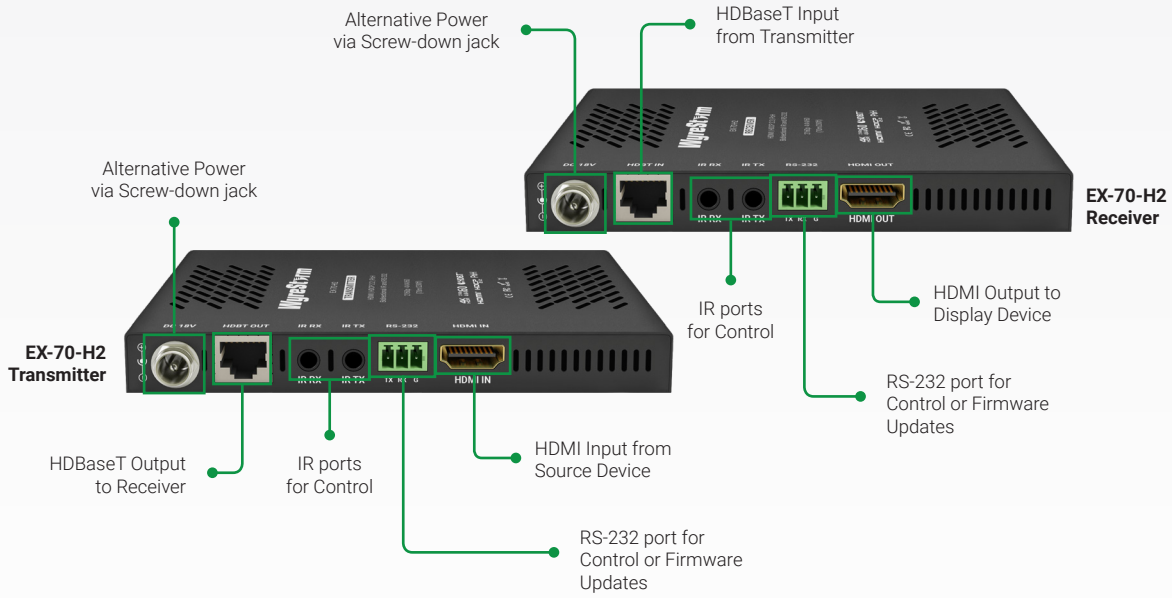
# 18Gbps 4K HDR HDBaseT Extender with HDCP 2.2 and 2-way PoH

**EX-70-H2 v2**

WyreStorm

**Specification Sheet**

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## Introduction

Part of the latest generation of WyreStorm 4K extenders for the latest generation of 4K HDR content, the EX-35-H2 features dynamic compression technology to enable high frame rate HDR-10 and HLG content to be transmitted over standard 10Gbps HDBaseT, both visually losslessly and without latency.

## Key Features

- 4K UltraHD extender set capable of transmitting AV content over medium distances using single cable Cat6 cable
- HDBaseT™ Class B transmission of 4K HDR up to 35m/115ft and 1080p @60Hz 36bit up to 70m/230ft
- Full UHD 4K transmission supporting HDMI 2.0 video standards
- Supports all high definition resolutions including 4K UHD @30hz 4:4:4 24bit | 4K HDR @24Hz 4:2:0 10bit (BT.2020) - see specifications for details
- Revised chipset increases compatibility with new 4K UHD source devices
- Transmits discreet wide-band bidirectional IR/RS-232 control signals together with HDMI over a single Cat5e/6 cable
- Low profile chassis of 15mm for easier, more convenient installations behind screens at display zones
- Supports 2ch PCM and 7.1 multichannel audio up to DTS-X and Dolby Atmos
- 2-way PoH (Power over HDBaseT™) enables either transmitter or receiver to be remotely powered by the other locally powered so mains power connectivity is not required at both source and display location
- HDCP 2.2 compliant
- 3D compatible
- Switchable RS-232 function mode on transmitter and receiver for firmware update
- Threaded bushings allow use of both standard and locking DC power plugs
- Visual LED indication for power, display connection signal status, HDBaseT™ link, and HDCP presence in signal
- Cable termination follows IEEE-568B standards
- Automatically adjusts feedback, equalization and amplification of signal for easy installation
- Energy efficient universal power supply included

## In the Box

1x EX-70-H2 Transmitter
1x EX-70-H2 Receiver
1x IR Emitter
1x IR Receiver
2x 3-pin Terminal Block
1x 18V DC 1A Power Supply (US/UK/EU/AU)
4x Mounting Brackets (2x for TX | 2x for RX)
1x Quickstart Guide

**Note:** This product has been released in multiple versions which have different feature sets and/or chassis designs. The differences are identified throughout this document where applicable.

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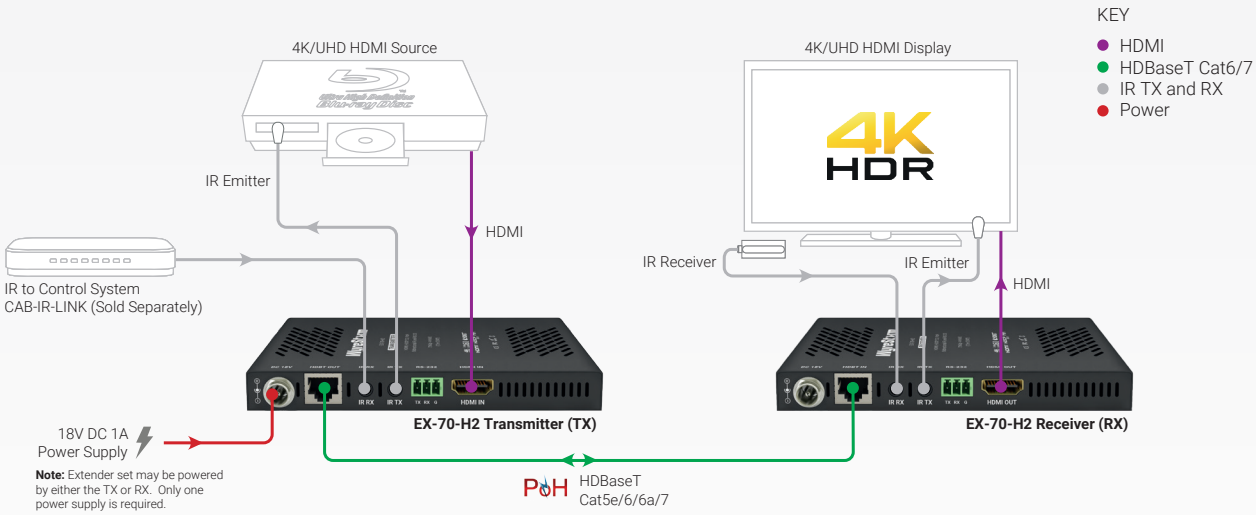
# Specifications

| | Transmitter | | Receiver | |
|---|---|---|---|---|
| **Audio and Video** | | | | |
| **Inputs** | 1x HDMI In: 19-pin type A | | 1x HDBT In: 8-pin RJ-45 Female | |
| **Outputs** | 1x HDBT Out: 8-pin RJ-45 Female<br>1x HDMI Loop Out: 19-pin type A | | 1x HDMI Out: 19-pin type A | |
| **Output Video Encoding** | HDBaseT Class A | | | |
| **Encoding Data Rate** | 9.2Gbps | | | |
| **End to End Latency (Max)** | 10µs (micro seconds) | | | |
| **Audio Formats** | 2ch PCM \| Multichannel up to DTS-X and Dolby Atmos | | | |
| **Video Resolutions (Max)** | **Video Resolution** | **HDMI** | **Cat6** | **Cat6a/7** |
| | 1920x1080p @60Hz 12bit | 15m/49ft | 100m/328ft | 100m/328ft |
| | 1920x1080p @60Hz 16bit | 7m/23ft | 100m/328ft | 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 | 70m/230ft |
| | 4096x2160p @60Hz 8bit 4:2:0 | 7m/23ft | 70m/230ft | 100m/328ft |
| | 4096x2160p @60Hz 8bit 4:4:4 | 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 \| Dolby Vision @ 30Hz \| HLG \| HDR-10 | | | |
| **Maximum Pixel Clock** | HDMI: 600MHz \| HDBaseT: 297MHz | | | |
| **Communication and Control** | | | | |
| **HDMI** | HDMI \| HDCP 2.2 \| EDID \| DVI/D supported with adapter (not included) | | | |
| **HDBaseT** | HDMI \| HDCP 2.2 \| EDID \| 2-way PoH \| Bidirectional IR, RS-232, and Ethernet | | | |
| **CEC** | CEC Pass-through – Requires CEC compatibility between source and display | | | |
| **IR** | 1x IR TX: 3.5mm (1/8in) TS Mono \| 1x IR RX: 3.5mm (1/8in) TRS Stereo | | | |
| **RS-232** | 1x RS-232: 3-pin Terminal Block | | | |
| **Ethernet** | 1x Ethernet: 8-pin RJ-45 Female | | | |
| **Power** | | | | |
| **Power Supply** | 18V DC 1A | | | |
| **PoH** | IEEE 802.3af 48V 15.4W Max \| 2-way | | | |
| **Max Power Consumption** | 4.68W | | 6.84W | |
| **Environmental** | | | | |
| **Operating Temperature** | 0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing | | | |
| **Storage Temperature** | -20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing | | | |
| **Maximum BTU** | 16 BTU/hr | | 24 BTU/hr | |
| **Dimensions and Weight** | | | | |
| **Rack Units/Wall Box** | <1U | | | |
| **Height** | 21mm/0.83in | | | |
| **Width** | 210mm/8.27in | | | |
| **Depth** | 94.8mm/3.74in | | | |
| **Weight** | 0.24Kg/0.53lbs | | | |
| **Regulatory** | | | | |
| **Safety and Emission** | CE \| FCC \| RoHS \| RCM | | | |

# *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.