4K UHD HDBaseT™ Extender with HDCP, PoH and CEC Passthrough (4K: 35m/115ft | 1080p: 70m/230ft)
EX-70-G2

WyreStorm - Because the Technology Matters.

Introduction
Super-compact HDBaseT extender set capable of transmitting 4K UHD video and HD audio formats up to 35m/115ft of Cat5e cable. Also compatible with HDCP2.2 protected content, the EX-70-G2 has powerful bi-directional pass-through of CEC, IR and RS-232. 2-way PoH means device can be powered from either end for flexible installation options.

Key Features
- Extends 4K UHD video content to 35m/115ft
- Compatible with 2160p 4:2:0 60Hz or 4:4:4 & RGB 30Hz Content
- HDCP 2.2 encryption compliant
- Extends 1080p HDMI signal to 70m/230ft
- 2ch PCM and multichannel audio supported up to DTS:X and Dolby Atmos
- 2-Way PoH provides flexible installation options allowing TX or RX only to be powered
- Bidirectional IR & RS-232 pass-through
- Automatic EDID Management (copy from sink device)
- Supports CEC communication between devices
- Low profile 15mm chassis allows easy installation behind flush-mounted screens
- Threaded DC socket for secure power connection
- Visual LED indication for power supply to units, signal status to show established display connection, HDCP presence in signal and HDBaseT™ link between devices

In the Box
1x EX-70-G2 Transmitter
1x EX-70-G2 Receiver
1x 18V DC 1A Power Supply (US/UK/EU)
1x IR Emitters

1x IR Receivers (30-50KHz)
4x Mounting Brackets (1pr for TX and 1pr for RX)
1x Quickstart Guide (this document)
2x 3-pin Phoenix Connector

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.
Audio and Video

<table>
<thead>
<tr>
<th></th>
<th>Transmitter</th>
<th>Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs</strong></td>
<td>1x HDMI In: 19-pin type A</td>
<td>1x HDBT In: 8-pin RJ-45 Female</td>
</tr>
<tr>
<td><strong>Outputs</strong></td>
<td>1x HDBT Out: 8-pin RJ-45 Female</td>
<td>1x HDMI Out: 19-pin type A</td>
</tr>
<tr>
<td><strong>Output Video Encoding</strong></td>
<td>HDBaseT Class B</td>
<td></td>
</tr>
<tr>
<td><strong>Encoding Data Rate</strong></td>
<td>9.2Gbps</td>
<td></td>
</tr>
<tr>
<td><strong>End to End Latency (Max)</strong></td>
<td>10µs (micro seconds)</td>
<td></td>
</tr>
<tr>
<td><strong>Audio Formats</strong></td>
<td>2ch PCM</td>
<td>Multi Channel up to Dolby Atmos® and DTS-X®</td>
</tr>
</tbody>
</table>

**Video Resolutions (Max)**

<table>
<thead>
<tr>
<th>Video Resolution</th>
<th>HDMI</th>
<th>Cat6</th>
<th>Cat6a/7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1080p @60Hz 12bit</td>
<td>70m/328ft</td>
<td>15m/49ft</td>
<td></td>
</tr>
<tr>
<td>1920x1080p @60Hz 16bit</td>
<td>70m/328ft</td>
<td>7m/23ft</td>
<td></td>
</tr>
<tr>
<td>3840x2160p @30Hz 8bit 4:4:4</td>
<td>35m/115ft</td>
<td>35m/115ft</td>
<td>70m/230ft</td>
</tr>
<tr>
<td>3840x2160p @60Hz 8bit 4:2:0</td>
<td>35m/115ft</td>
<td>7m/23ft</td>
<td></td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:2:0</td>
<td>35m/115ft</td>
<td>7m/23ft</td>
<td></td>
</tr>
</tbody>
</table>

**Supported Standards**

- DCI | RGB

**Maximum Pixel Clock**

- HDMI: 300MHz | HDBaseT: 297MHz

**Communication and Control**

**HDMI**

- HDMI | HDCP (v1 chassis 1.4 | v2 chassis 2.2) | EDID Pass-through | CEC Pass-through
- DVI/D supported with adapter (not included)

**HDBaseT**

- HDMI | HDCP (v1 chassis 1.4 | v2 chassis 2.2) | EDID Pass-through | 2-way PoH | Bidirectional IR

**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 Phoenix (v2 chassis only)

**Power**

**Power Supply**

- 18V DC 1A

**PoH**

- IEEE 802.3af 15.4W Max | 2-way

**Max Power Consumption**

- Transmitter: 7W | Receiver: 17W

**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**

- Transmitter: 24 BTU/hr | Receiver: 58 BTU/hr

**Dimensions and Weight**

<table>
<thead>
<tr>
<th>v1 Chassis</th>
<th>v2 Chassis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rack Units/Wall Box</strong></td>
<td>&lt;1U</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>15mm/0.6in</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>109mm/4.3in</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>64.2mm/2.53in</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>0.36kg/0.79lbs</td>
</tr>
</tbody>
</table>

**Regulatory**

**Safety and Emission**

- CE | FCC | 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.