The standard Transmission card found in the H2X platform, the TX-H2X-HDMI transmits 4K UHD signals from 70m/230ft over its Class A HDBaseT™ output and features an HDMI output that mirrors HDBaseT™. The HDMI output is perfect for connecting to a local monitor, AVR, or signal extension via extender product or one of WyreStorm's Hybrid Active Optical Cables (HAOC).

**Introduction**

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**Key Features**

- 18Gbps HDMI input
- HDBaseT™ Output - Transmitting Class A HDBaseT™ which includes video, audio, control and power up to 70m/230ft of 4K and 100m/328ft of 1080p
- HDMI Output - Mirrored to HDBaseT™ to allow additional connection of a local display device, AVR or to extend with a hybrid active optical HDMI cable (HAOC)
- 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-HDMI Modular Card
## Specifications

### Audio and Video

#### Inputs
- 1x HDMI In: 19-pin type A
- 1x HDMI Out: 19-pin type A
- 1x S/PDIF In: S/PDIF Coaxial Digital

#### Outputs
- 1x HDBT Out: 8-pin RJ-45 Female
- 1x Audio Out: 3-pin Phoenix
- 1x S/PDIF Out: S/PDIF Coaxial Digital

#### Output Video Encoding
- HDBaseT Class A

#### Encoding Data Rate
- 9.2 Gbps

#### 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

### Video Resolutions (Max)

<table>
<thead>
<tr>
<th>Resolution</th>
<th>HDMI</th>
<th>Cat6</th>
<th>Cat6a/7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1080p @60Hz 12bit</td>
<td>15m/49ft</td>
<td>100m/328ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>1920x1080p @60Hz 16bit</td>
<td>7m/23ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
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<tr>
<td>3840x2160p @24Hz 10bit 4:2:0 HDR</td>
<td>3m/10ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>3840x2160p @30Hz 8bit 4:4:4</td>
<td>7m/23ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>3840x2160p @60Hz 10bit 4:2:0 HDR</td>
<td>3m/10ft</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:2:0</td>
<td>7m/23ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:4:4</td>
<td>7m/23ft</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### Supported Standards
- DCI | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100

### 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 Input over HDBaseT (Requires ARC or SCL Receiver)

### Power

#### Power Supply
- Internal to Matrix

#### PoH
- 48V 15.4W

### Environmental

#### Operating Temperature
- Matrix Dependent

#### Storage Temperature
- Matrix Dependent

#### Maximum BTU
- Matrix Dependent

### Regulatory

#### Safety and Emission
- Matrix Dependent

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Right Product for the Right Application.