**DESCRIPTION**

The HD-H704K-WP 18G HDMI® Extender consists of a single gang wall plate transmitter and a small thin brick receiver. This extender set can be used anywhere you need longer distance HDMI® sources to display thru twisted pair wiring. The HD-H704K-WP adopts PoC technology to extend 4K @ 60Hz 4:4:4 HDMI® video to distances up to 40 meters (131 feet) and 1080p @ 60Hz video to distances up to 70 meters (230 feet) over a single CATx cable. It supports bi-directional RS-232 and IR pass-through to control source or display devices remotely. It also supports CEC pass-through. HDBaseT® (PoC) feature allows the transmitter to be powered by the receiver over the CATx cable.

**WHAT’S IN THE BOX**

- 1x One gang decora wall plate
- 1x HD-H704K-WP
- 2x 2-pin Terminal Blocks
- 1x RS232 Cable (3-pin to DB9)
- 1x HD-H704K-WP-Rx
- 2x Mounting Ears with 2 Screws
- 4x Plastic Cushions
- 1x 3-pin Terminal Block
- 1x Power Adapter (DC 24V 1.25A)
- 1x IR Emitter Cable
- 1x User Manual

**FEATURES**

- Supports HDMI® 2.0, HDR, HDCP 2.2 compliant
- Transmission distance up to 4K/40m or 1080p/70m
- S/PDIF output for audio de embedded
- Supports video resolution down scaling to output 1080p for compatibility with 1080p display
- Bi-directional RS-232 control
- IR pass through, sensor on the front of the wall plate and a provided emitter cable
- Tx is powered by Rx via 24V PoC

**APPLICATIONS**

- Conference Rooms
- Multi-purpose Rooms
- Collaboration Areas
- Classrooms
- Home Theaters
- Digital Signage

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18550</td>
<td>HD-H704K-WP</td>
<td>1-Gang 70M SET- Wall Plate and Brick</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
# SPECIFICATIONS

## TPUH703T

<table>
<thead>
<tr>
<th>Input</th>
<th>(1) HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connector</td>
<td>(1) Type-A female HDMI</td>
</tr>
<tr>
<td>Output</td>
<td>(1) HDBT</td>
</tr>
<tr>
<td>Output Connector</td>
<td>(1) RJ45</td>
</tr>
<tr>
<td>Control</td>
<td>(1) RS232, (1) IR In (1) Built-in IR Receiver</td>
</tr>
<tr>
<td>Control Connector</td>
<td>(1) 3-pin terminal block, (1) 2-pin terminal block</td>
</tr>
</tbody>
</table>

## TPUH703R

<table>
<thead>
<tr>
<th>Input</th>
<th>(1) HDBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connector</td>
<td>(1) RJ45</td>
</tr>
<tr>
<td>Output</td>
<td>(1) HDMI</td>
</tr>
<tr>
<td>Output Connector</td>
<td>(1) Type-A female HDMI</td>
</tr>
<tr>
<td>Control</td>
<td>(1) RS232, (1) IR In (1) IR Out</td>
</tr>
<tr>
<td>Control Connector</td>
<td>(1) 3-pin terminal block, (2) 3.5mm mini jacks</td>
</tr>
<tr>
<td>Audio Output</td>
<td>(1) AUDIO Out</td>
</tr>
<tr>
<td>Audio Output Connector</td>
<td>(1) SPDIF</td>
</tr>
<tr>
<td>Output level</td>
<td>±0.05dBFS</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>20 Hz to 20 kHz, ±0dB</td>
</tr>
<tr>
<td>THD+N</td>
<td>&lt; 0.05%, 20 Hz – 20 kHz bandwidth, 1 kHz sine at 0 dBFS level (or max level)</td>
</tr>
<tr>
<td>SNR</td>
<td>&gt; 90dB, 20Hz-20 kHz bandwidth</td>
</tr>
<tr>
<td>Noise</td>
<td>-90dB</td>
</tr>
</tbody>
</table>

## General

- **Video Resolution**: Up to 4K@60Hz 4:4:4, HDR
- **HDMI Audio Format**: LPCM 7.1 audio, Dolby Atmos®, Dolby TrueHD, Dolby Digital Plus, DTS:X®, DTS-HD® Master Audio™ pass-through.
- **Bandwidth**: 18Gbps
- **Color Space**: Supports RGB, Rec. 601, and rec. 709 BT2020
- **HDMI Standard**: 2.0
- **HDCP Version**: 2.2, 1.4 compliant, follows the display.
- **CEC**: Pass-through
- **EDID**: Pass-through
- **Transmission Standard**: HDBaseT™
- **Transmission Distance**: 4K@60Hz 4:4:4 ≤ 40 meters (131 feet), 1080p@60Hz ≤ 70 meters (230 feet)
- **Operation Temperature**: 0~+55°C
- **Storage Temperature**: -25~+70°C
- **Relative Humidity**: 10%~90%
- **Power Supply**: Input:100V~240V AC; Output: 24V DC 1.25A
- **Power Consumption**: TX&RX 11.5W (Max)
- **Dimension (W*H*D)**: TX: 50mm (2") x 103.44mm (4") x 53.3mm (2")
  RX: 130mm (5.1") x 18mm (.7") x 84.4mm (3.3")
- **Net Weight**: TX: 180g (6.3 oz)
  RX: 255g (9 oz)

---

## APPLICATION EXAMPLES

![Application Example Diagram](diagram.png)

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

HDBaseT™ and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance.