Overview:

The HDMI 2.0 Extender Kit allows HDMI equipment supporting uncompressed video up to 4K/60 (4:4:4) resolutions to be connected over Cat6a/7 unshielded twisted pair cable in a point-to-point configuration at distances up to 30m at 4K/60, 40m at 4K/30 and 45m at 1080p. The unit supports HDCP 2.2, and audio pass-through up to Dolby Atmos & DTS:X. The HDMI 2.0 Extender Kit supports a 1-way IR port (carrier wave) for remote control of end devices. The kit comes with one (1) Transmitter and one (1) Receiver as well as an IR Emitter and IR Sensor for remote control applications.

Applications:

<table>
<thead>
<tr>
<th>Environment</th>
<th>HDMI 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices</td>
<td>DVD, plasma, projectors, monitors, TV, PC, laptops, servers supporting HDMI.</td>
</tr>
<tr>
<td>Transmission</td>
<td>Transparent to the user</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>594MHz</td>
</tr>
<tr>
<td>Signals</td>
<td>HDMI 2.0 and HDCP 2.2</td>
</tr>
</tbody>
</table>

Features:

- Video up to 4K/60 (4:4:4) uncompressed
- HDCP 2.2
- Pass-through of up to Dolby Atmos and DTS:X audio
- 30m (100ft) at 4K/60 over Cat6a/7 cable
- Point-to-point connectivity
- 1-way IR for remote control of end devices
- PoC to power either the TX or RX unit

Maximum Distance

Based on a maximum length of 6.6 ft (2 m) of HDMI cable per end.

<table>
<thead>
<tr>
<th>Distance</th>
<th>uncompressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>30m (100ft)</td>
<td>at 4K/60</td>
</tr>
<tr>
<td>40m (130ft)</td>
<td>at 4K/30</td>
</tr>
<tr>
<td>45m (148ft)</td>
<td>at 1080p/60</td>
</tr>
</tbody>
</table>

Note: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.

RJ45 Pin Configuration

Reverse Polarity Sensitive. Use EIA/TIA 568A or 586B straight-through wiring.

<table>
<thead>
<tr>
<th>RJ45 Link</th>
<th>Pin 1 (R)</th>
<th>Pin 2 (T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin 3 (R)</td>
<td>Pin 6 (T)</td>
<td></td>
</tr>
<tr>
<td>Pin 4 (R)</td>
<td>Pin 5 (T)</td>
<td></td>
</tr>
<tr>
<td>Pin 7 (R)</td>
<td>Pin 8 (T)</td>
<td></td>
</tr>
</tbody>
</table>

Cable

One (1) Cat 6a/7 or better twisted pair cables required

Power Supply

Transmitter: 6 Watt
Receiver: 6 Watt

Power Consumption

Transmitter: 6 Watt
Receiver: 6 Watt

Temperature

Operating: 0° to 40°C Storage: -20° to 70°C
Humidity: Up to 95% non-condensing

Enclosure

Metal black

Dimensions

3.54" x 1.73" x 0.91" (90 mm x 44 mm x 23 mm)

Weight

1.0 lb (0.45 kg)

Compliance

Regulatory: FCC, CE, RoHS

Warranty

2 years

Order Information

500409 HDMI 2.0 Extender Kit (UPC: 627699004098)
Typical Application:

Product Photos: