Overview

The HDMI Extender Kit (500451) allows HDMI equipment to be connected up to 131 ft (40m) at 4K/30 (4:4:4) or 4K/60 (4:2:0) resolutions, or 230 ft (70 m) at resolutions up to 1080p via one (1) Cat 5e/6 unshielded twisted pair cable in a point-to-point configuration. This kit comes with one (1) transmitter, one (1) receiver, one (1) IR Emitter, and one (1) IR sensor.

Applications

Digital signage, commercial AV systems, classroom projector systems, boardroom systems, collaborative PC systems, medical information systems.

Key Features

- Supports 1080p deep color and full 3D to distances of up to 230 ft (70m) over single Cat5e/6
- Supports 4K @ 24/25/30Hz (4:4:4) and 4K/60 (4:2:0) to distances of up to 131 ft (40m) over single Cat5e/6
- Supports Bi-directional IR pass through
- Supports all digital audio modes
- Includes IR emitter and IR sensor (carrier-wave)
- Compatible with 500451-PoE

Specification Chart

<table>
<thead>
<tr>
<th>Environment</th>
<th>HDMI 1.4a (3D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices</td>
<td>DVDs, Blu-ray players, projectors, monitors, TVs, PCs, laptops, servers supporting HDMI.</td>
</tr>
<tr>
<td>Transmission</td>
<td>Transparent to the user.</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>340MHz</td>
</tr>
<tr>
<td>Signals</td>
<td>HDMI 1.4a protocol.</td>
</tr>
<tr>
<td>Connectors</td>
<td>One (1) HDMI receptacle.</td>
</tr>
<tr>
<td>Cables not included.</td>
<td>One (1) RJ45S for Cat5e/6 unshielded or shielded twisted pair. Two (2) 3.5mm sockets for IR Sensor &amp; Emitter (carrier-wave).</td>
</tr>
<tr>
<td>Max. Distance*</td>
<td>4K/30 (4:4:4): Cat 5e/6: 131ft (40m) 4K/60 (4:2:0): Cat 5e/6: 131ft (40m) 1080p: Cat 5e/6: 230ft (70m) 1080p Deep Color: Cat 5e/6: 230ft (70m)</td>
</tr>
</tbody>
</table>

*RJ45 Pin Configuration

| Pin 1 (R) | Pin 2 (T) |
| Pin 3 (R) | Pin 6 (T) |
| Pin 4 (R) | Pin 5 (T) |
| Pin 7 (R) | Pin 8 (T) |

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

Cable

One (1) Category 5e or better twisted pair cables required.

Power Supply

Two (2) 110-240V/5VDC power supplies with interchangeable blades.

Power Consumption

Transmitter: 1.6 Watt Receiver: 3.2 Watt

Temperature

Operating: 0º to 40º C. Storage:-20º to 85º C. Humidity: up to 95% non-condensing.

Enclosure

Metal

Dimensions

4.40” x 3.00” x 1.00” (11.2 x 7.6 x 2.5 cm)

Weight

1.4 lbs (.6 kg)

Compliance

Regulatory: FCC, CE, RoHS

Warranty

2 years

Order Information

500451 HDMI Extender Kit, HDBT, UHD-4K (UPC: 627699004517)
500451-RX, HDMI Receiver, HDBT, UHD-4K (UPC: 627699804513)

Accessories

500905 Rackmount Transceiver Chassis 3 Port
500920 Rackmount Transceiver Chassis 16 Port
Typical Application Schematic

- IR Emitter
- DVD Player
- Transmitter (Source)
- HDMI Extender Kit (500451)
- One (1) Cat5e/6 Cable
- Receiver (Display)
- Display
- IR Sensor
- PSU