

## Overview

The HDMI Extender Kit (500451) allows HDMI equipment to be connected up to 131ft (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									
<b>Environment</b>	HDMI 1.4a (3D)								
<b>Devices</b>	DVDs, Blu-ray players, projectors, monitors, TVs, PCs, laptops, servers supporting HDMI.								
<b>Transmission</b>	Transparent to the user.								
<b>Bandwidth</b>	340MHz								
<b>Signals</b>	HDMI 1.4a protocol.								
<b>Connectors</b>	One (1) HDMI receptacle. One (1) RJ45S for Cat5e/6 unshielded or shielded twisted pair.								
<i>Cables not included.</i>	Two (2) 3.5mm sockets for IR Sensor & Emitter (carrier-wave).								
<b>Max. Distance*</b>	<table border="0"> <tr> <td>4K/30 (4:4:4):</td> <td>Cat 5e/6: 131ft (40m)</td> </tr> <tr> <td>4K/60 (4:2:0):</td> <td>Cat 5e/6: 131ft (40m)</td> </tr> <tr> <td>1080p:</td> <td>Cat 5e/6: 230ft (70m)</td> </tr> <tr> <td>1080p Deep Color:</td> <td>Cat 5e/6: 230ft (70m)</td> </tr> </table> <p><i>*Based on a maximum length of 6.6 ft (2m) of HDMI cable per end.</i></p> <p><i>When installed in an electrically noisy environment, STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.</i></p>	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)
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1080p Deep Color:	Cat 5e/6: 230ft (70m)								
<b>RJ45 Pin Configuration</b>	RJ45 <div style="display: flex; justify-content: space-around; align-items: center;"> </div> <p>Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)</p> <p><i>Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.</i></p>								
<b>Cable</b>	One (1) Category 5e or better twisted pair cables required.								
<b>Power Supply</b>	Two (2) 110-240V/5VDC power supplies with interchangeable blades.								
<b>Power Consumption</b>	Transmitter: 1.6 Watt Receiver: 3.2 Watt								
<b>Temperature</b>	Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.								
<b>Enclosure</b>	Metal								
<b>Dimensions</b>	4.40" x 3.00" x 1.00" (11.2 x 7.6 x 2.5 cm)								
<b>Weight</b>	1.4 lbs (.6 kg)								
<b>Compliance</b>	Regulatory: FCC, CE, RoHS, UL, cUL, TUV								
<b>Warranty</b>	2 years								
<b>Order Information</b>	500451 HDMI Extender Kit, HDBT, UHD-4K (UPC: 627699004517) 500451-TX HDMI Transmitter, HDBT, UHD-4K (UPC: 627699904510) 500451-RX HDMI Receiver, HDBT, UHD-4K (UPC: 627699804513)								
<b>Accessories</b>	500905 Rackmount Transceiver Chassis 3 Port 500920 Rackmount Transceiver Chassis 16 Port								

**Typical Application Schematic**

