Overview

The HDMI Extender Kit 70m, HDBT, UHD-4K (100509) allows HDMI equipment to be connected up to 131ft (40m) @ 4K/30 (4:4:4) or 4K/60 (4:2:0) resolution, or up to 230ft (70m) @ 1080p Deep Color via one (1) Cat 5e/6 unshielded twisted pair cable in a point-to-point configuration. Pass-through of bi-directional IR and RS232 along with CEC is supported for control of end devices.
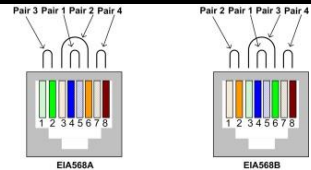
The HDMI Extender Kit 70m, HDBT, UHD-4K supports PoC, allowing one unit to power the other. The kit comes with one (1) transmitter, one (1) receiver, two (2) IR Emitters, and two (2) IR sensors, two (2) phoenix plugs for RS232 and one (1) 12VDC @ 2A power supply.

Applications

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

Key Features

- Supports 4K/30 (4:4:4) and 4K/60 (4:2:0) at up to 131ft (40m) over Cat5e/6 UTP
- Supports 1080p/60 with 3D pass-through at up to 230ft (70m) over Cat5e/6 UTP
- HDCP 1.4 & 2,2 compliant
- Supports bi-directional IR and RS232 pass-through, along with CEC to control end devices
- Supports pass-through of all digital audio modes
- Includes IR emitters and IR sensors (carrier-wave)
- Supports PoC, allowing one unit to power the other

Specification Chart

Environment	HDMI 1.4a (3D)
HDMI Devices	DVD players, Blu-ray players, Media players, projectors, monitors, TVs, PCs, laptops, servers.
Transmission	Transparent to the user.
Bandwidth	Up to 340MHz
Signals	HDMI 1.4a protocol.
Connectors	One (1) HDMI receptacle. One (1) RJ45S for Cat5e/6 unshielded or shielded twisted pair. Two (2) 3.5mm sockets for IR Sensor & Emitter.
Cables *Cables not included.*	One (1) Cat 5e/6 or better twisted pair cable required for link connection. Two (2) HDMI cables required for source and sink device connections.
Max. Distance* **Based on a maximum length of 6.6 ft (2m) of HDMI cable per end.*	4K/30 (4:4:4) and 4K/60 (4:2:0): 131ft (40m) via Cat 5e/6 1080p/60 with Deep Color and 3D pass-through: 230ft (70m) via Cat 5e/6. *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.*
RJ45 Pin Configuration *Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.*	RJ45 Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)
Power Supply	One (1) 110-240VAC @ 50-60Hz, to 12VDC @ 2A power supply with interchangeable blades.
Power Consumption	Transmitter: 1.8 Watt Receiver: 3.6 Watt
Temperature	Operating: 0º to 40º C. Storage:-20º to 85º C. Humidity: up to 90% non-condensing.
Enclosure	Metal
Unit Dimensions	4.45" x 2.83" x 0.59" (11.3 x 7.2 x 1.5 cm)
Shipping Weight	1.4 lbs (.6 kg)
Compliance	Regulatory: FCC, CE, RoHS, UL, cUL, TUV
Warranty	1 year
Order Information	100509 HDMI Extender Kit 70m, HDBT, UHD-4K (UPC: 627699505090)

Typical Application Schematic

RS232 PC Terminal

100509-TX

164ft (50m) UTP CAT 53/6

100509-RX

RS232

HDMI

AV Source

IR Emitter B

PSU

(PoC)

IR Emitter A

Display

IR Sensor A

IR Sensor B

IR Remote A

IR Remote B