HDMI Extender Kit, PoE, HDBT, UHD-4K 500451-PoE



Overview

The HDMI Extender Kit (500451-PoE) 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.



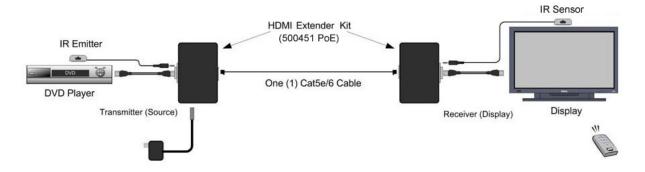
Key Features

- 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 (non PoE version)

Specification Chart	
Environment	HDMI 1.4a (3D)
Devices	DVDs, Blu-ray players, projectors, monitors, TVs, PCs, laptops, servers supporting HDMl.
Transmission	Transparent to the user
Bandwidth	340MHz
Signals	HDMI 1.4a protocol
Connectors	One (1) HDMI receptacle.
Cables not included	One (1) RJ45S for Cat5e/6 unshielded or shielded twisted pair. Two (2) 3.5mm sockets for IR Sensor & Emitter (carrier-wave)
Cables not included	
Max. Distance*	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: Cat 5e/6: 250ft (70m) 1080p Deep Color: Cat 5e/6: 230ft (70m)
*Based on a maximum length of 6.6	1080p Deep Color: Cat 3e/6: 250ft (70ff)
ft (2m) of HDMI cable per end	When installed in an electrically noisy environment, STP cable must be used. Also, cross-
it (211) of Fibini cable per end	connection reduces the effective distance depending on the grade of twisted cable used.
RJ45 Pin Configuration	RJ45 Pair 3 Pair 1 Pair 3 Pair 4 Pair 2 Pair 1 Pair 3 Pair 4 Pair 2 Pair 1 Pair 3 Pair 4
N343 Fill Collingulation	
	Pin 1 (R) Pin 2 (T)
Reverse Polarity Sensitive	Pin 3 (R) Pin 6 (T)
Use EIA/TIA 568 A or B, straight-	Pin 4 (R) Pin 5 (T)
through wiring.	Pin 7 (R) Pin 8 (T)
an eagar mang.	
Cable	One (1) Category 5e or better twisted pair cables required.
Power Supply	One (1) 110-240V/48VDC power supply with interchangeable blades
Power Consumption	Transmitter: 1.6 Watt Receiver: 3.2 Watt
Temperature	Operating: 0° to 40° C. Storage:-20° to 85° 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-PoE , HDMI Extender Kit, PoE, HDBT, UHD-4K (UPC: 627699044513)
Order information	500451-PoE, HDMI Extender Kit, PoE, HDB1, UHD-4K (UPC: 627699044513) 500451-PoE-RX, HDMI Receiver, PoE, HDBT, UHD-4K (UPC: 627699844519)
Accessories	500905 Rackmount Transceiver Chassis 3 Port
	500920 Rackmount Transceiver Chassis 16 Port

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Typical Application Schematic





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