Overview:

The HDMI 4K over IP PoE Extender Kit allows HDMI equipment to be extended up to 330ft (100m) up to 4K (3840x2160) resolution @ 30Hz via one (1) Cat5e/6 cable in a point-to-point configuration. Point-to-multipoint and multipoint-to-multipoint configurations are also possible by connecting several units to the same local Ethernet network, and the device supports PoE (PD) if used with a PoE (PSE) Ethernet Switch.
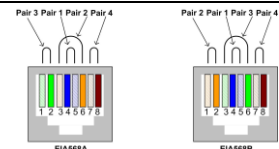
Applications:

- Commercial and residential AV systems
- Classroom projector systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
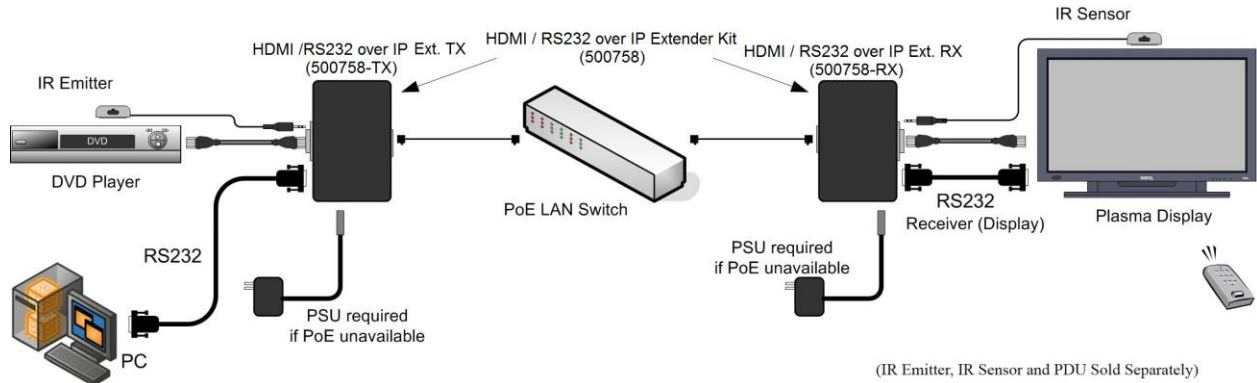- Medical information systems

Key Features:

- Supports HDMI up to 4K @ 30Hz (4:4:4)
- Supports 100's of Transmitters & Receivers depending on network bandwidth
- Extend HDMI up to 330ft (100m) over Cat5e/6
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Supports audio insert (TX) & audio extract (RX)
- Supports IR and RS232 transmission for remote control

Specifications	
Environment	HDMI 1.4
Devices	Blu-Ray, projectors, monitors, TV, PC, laptops, servers supporting HDMI.
Bandwidth	300MHz
Signals	HDMI 1.4 protocol
Connectors *Note: Cables not included.*	One (1) HDMI receptacle. One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. Two (2) 3.5mm jacks for IR emitter (on TX)/sensor (on RX). Two (2) 3.5mm jacks for audio insert (on TX)/audio extract (on RX). One (1) DB9 for the RS232 Four (4) DIP Switches for device ID addressing.
Maximum Distance *Based on a maximum length of 6.6ft (2m) of HDMI cable per end.*	Cat5e/6: 330ft (100m) up to 4K @ 30Hz *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.*
Latency	Typical one (1) Frame (16ms), maximum 2 frames (33ms)
Compression	Proprietary Compression
Bandwidth	Up to 850Mbps
Network Requirement	1000BaseT with Jumbo Frame
IR Frequency	38 to 56KHz
RJ45 Pin Configuration *Reverse Polarity Sensitive. Use EIA/TIA 568A or 586B straight-through wiring.*	**RJ45 Link** Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T) Pair 3 Pair 1 Pair 2 Pair 4 Pair 2 Pair 1 Pair 3 Pair 4 EIA568A EIA568B
Cable	One (1) Cat 5e/6 or better twisted pair cables required
Power Source	This device supports PoE (PD), an external power supply is not included. It is intended to be powered via a PoE (PSE) Ethernet Switch. If required, an optional power supply (500993) may be purchased separately.
PoE	IEEE 802.3af
Power Consumption	Transmitter: 2.85Watt Receiver: 2.55Watt
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Dimensions	4.40" x 5.08" x 1.00" (112mm x 129mm x 25mm)
Weight	1.5lbs (0.68kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Order Information	500758 HDMI 4K over IP PoE Extender Kit (UPC: 627699007587) 500758-TX HDMI 4K over IP PoE Extender TX (UPC: 627699907580) 500758-RX HDMI 4K over IP PoE Extender RX (UPC: 627699807583)
Accessories (These items are sold separately)	500920 16-Port Rackmount Transceiver Chassis 500917 Wall Mount Transceiver Bracket Kit 500990 IR Emitter, and 500991 IR Sensor 500993 Univ. Locking Power Supply 5VDC/2.6A US/UK/EU Blade

Typical Application

(IR Emitter, IR Sensor and PDU Sold Separately)

Transmitter (Source Side)   **Receiver (Display Side)**