Overview:

The HDMI 2.0 over IP PoE Extender, 4K/60 allows HDMI source equipment supporting up to 4K (3840x2160) resolution @ 60Hz to be connected via Cat5e/6 cable up to 330ft (100m) from a 1Gbps Ethernet Switch, in point-to-point, point-to-multipoint and multipoint-to-multipoint configurations.

The system consists of a Transmitter and Receiver that supports a Directional IR port and RS232 port for remote control of end devices, and an 2CH audio port with audio insert at the Transmitter and audio extract at the Receiver.

The MuxLab Pro Digital Network Controller is available to simplify centralized configuration and control, software updates, and allows for management from the MuxControl smartphone and tablet App, and 3rd Party Control Apps.

Applications:

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

Key Features:

- Supports HDMI 2.0 up to 4K/60 (4:4:4)
- Latency of 16ms typ., (1 frame @ 60Hz)
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Transmission up to 330ft (100m) over Cat5e/6
- Supports a 1Gbps Ethernet network
- RS232 and Directional IR transmission for remote control of end devices
- 2CH Audio embedding (TX) and extraction (RX)
- Supports PoE
- Managed via Pro Digital Network Controller, MuxControl App & 3rd Party Control Apps

Specifications	
Environment	HDMI 2.0 and HDCP 2.2
Devices	Blu-Ray, projectors, monitors, TV, PC, laptops, and media servers supporting HDMI.
Bandwidth	594MHz
Signals	HDMI 2.0 protocol, up to 4K @ 60Hz (4:4:4)
Connectors *Note: Cables not included.*	One (1) HDMI-In receptacle (TX mode). One (1) HDMI-Out receptacle (Loop-Out in TX mode, or HDMI-Out in RX mode). One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair (for LAN). One (1) 3.5mm jack for 2CH Audio (configured as Audio-In for TX mode, or Audio-Out for RX mode). One (1) 3.5mm jack for Directional IR (for IR emitter or IR sensor). One (1) 3- pin terminal block connector for RS232. One (1) 2.1mm locking power jack (for DC power).
Maximum Distance *Based on a maximum length of 6.6ft (2m) of HDMI cable per end.*	Supports up to 4K @ 60Hz (4:4:4) at 100m over Cat 5e/6 *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	16ms typ. (1 frame)
Compression	JPG2000
Network Bandwidth	Up to 900Mbps
Network Requirement	1Gbps Network
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)
Cable	One (1) Cat 5e/6 or better twisted pair cable required per device.
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 (500988) may be purchased separately.
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Dimensions	4.33" x 8.82" x 1.29" (112mm x 225mm x 33mm)
Weight	1.23 lbs (0.56 kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500779-TX HDMI 2.0 over IP PoE Transmitter, 4K/60 (UPC: 627699907795) 500779-RX HDMI 2.0 over IP PoE Receiver, 4K/60 (UPC: 627699807798)
Accessories (These items are sold separately)	500920 16-Port Rackmount Transceiver Chassis (500779 takes up two slots) 500917 Wall Mount Transceiver Bracket Kit 500990 IR Emitter 500994 IR Sensor 500988 Universal Locking Power Supply 12VDC/2.0A US/UK/EU Blade

Typical Application

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