Overview:

The HDMI/Dante over IP PoE Transmitter, UHD-4K allows HDMI video equipment supporting up to 4K @ 30Hz (4:4:4) and 4K @ 60Hz (4:2:0), plus Dante audio equipment to be connected and extended to create an independently distributed audio and video network. 100's of Single Displays and Video Wall Displays of user configurable size (X by Y) may be supported, depending on network bandwidth. Audio can be independently distributed to 100's of Dante supported audio devices. Supports HDR at up to 4K @ 30Hz (4:2:2).

The unit can be connected via Cat5e/6 cable up to 330ft (100m) from an Ethernet Switch, and supports PoE (PD) when powered by a PoE (PSE) Ethernet Switch. An IR Emitter or IR Sensor, if required, may be purchased separately for IR based remote control applications.

The MuxLab Pro Digital Network Controller (500811) and MuxControl App are available to simplify configuration and management of this and other MuxLab AV over IP networked devices via Smartphone and Tablet.

Key Features:

- Configure a Video Wall array with 100's of displays, depending on network bandwidth
- Supports video up to 4K @ 30Hz (4:4:4), 4K @ 60Hz (4:2:0) and HDR at 4K @ 30Hz (4:2:2)
- Visually lossless video (1 frame latency)
- Distribute audio to 100's of Dante supported devices
- Supports 2CH audio insert
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Transmission up to 330ft (100m) over Cat5e/6
- RS232 and Directional IR for remote control of end-devices
- PoE powered
- HDMI AV managed via Pro Digital Network Controller (500811), MuxControl App and 3rd Party Control Apps
- Dante Audio managed by Audinate software

Specifications	
Environment	HDMI 2.0b and 2CH Dante Audio
Devices	Blu-Ray, projectors, monitors, TV, PC, laptops, servers supporting HDMI, and Dante supported audio gear.
Bandwidth	300MHz
Signals	HDMI 2.0b, HDCP 2.2, and 2CH Dante
Connectors *Note: Cables not included.*	One (1) HDMI receptacle. One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. One (1) 3.5mm jack for Directional IR emitter One (1) 3.5mm jack for 2CH audio insert. 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 (4:4:4) and 4K @ 60Hz (4:2:0). *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	JPG2000
Bandwidth	Up to 500Mbps
Network Requirement	1 Gig Ethernet with IGMP, Jumbo Frames and PoE
IR Frequency	38 to 56KHz (IR Emitter and IR Sensor sold separately)
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 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	6 W
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Dimensions	4.40" x 5.67" x 1.00" (112mm x 144mm x 25mm)
Weight	1.7lbs (0.77kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500759-TX-Dante Video Wall 4K over IP PoE Extender TX (UPC: 627699917596)
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

Pro Digital Network Controller

Smartphone

Tablet

PC

Router

500759-RX (4x)

Video Wall

500759-RX

Display

Media Player

500759-TX-Dante

Blu-ray Player

500759-TX-Dante

Dante Audio Mixer

Ethernet Switch

Audio System

500759-TX-Dante

Dante Audio AMP

Passive Speakers

MuxLab Inc.
2321 Rue Cohen, Montreal, Quebec, Canada, H4R 2N7
Tel: (514) 905 0588 Fax: (514) 905 0589
Toll Free:1 877 689-5228
E-mail: info@muxlab.com
www.muxlab.com