HDMI 4K/60 KVM over IP Transceiver 10Gb, UTP
500766

Overview:

The HDMI 4K/60 KVM over IP Transceiver 10GB, UTP (model: 500766) allows HDMI equipment supporting up to 4K @ 60Hz resolution to be connected and extended to create a 4K/60 HDMI based Video Wall, Virtual Matrix Switch, and Virtual Splitter arrangements of user configurable size (X by Y) supporting 100's of screens, depending on network bandwidth. The HDMI 4K/60 KVM over IP Transceiver 10GB, UTP can be connected via Cat6a/7 cable up to 330ft (100m) from a 10Gig Ethernet Switch. The unit supports a 1Gig Ethernet port to connect other 1Gig network devices, USB ports for KVM applications, RS232 and Bi-directional IR ports for remote control of end devices and Analog Audio embedded & de-embedded.

The HDMI 4K/60 KVM over IP Transceiver 10GB, UTP comes with a power supply, an IR Sensor and an IR Emitter for IR based remote control applications, and a wall mount bracket kit for securing the unit to a wall.

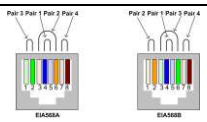
The MuxLab Pro Digital Network Controller (500812) is available to simplify centralized configuration and control, software updates and allows for connectivity management from MuxControl and other third-party applications running on smartphones and tablets.

Applications:

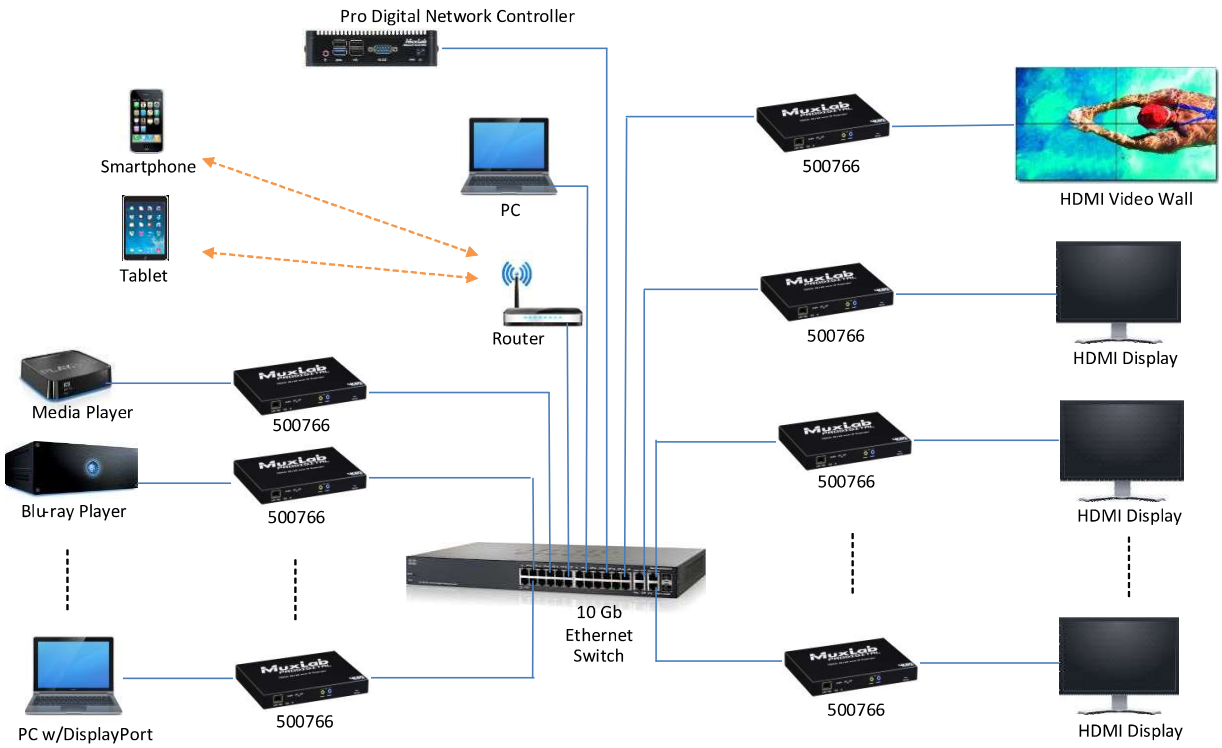
- Commercial and residential A/V systems
- KVM applications
- Classroom projector systems
- Boardroom systems
- Collaborative PC systems

Key Features:

- Supports HDMI up to 4K/60
- Uncompressed up to 4K/60 (4:2:0) (zero latency), and light compression visually lossless at (4:4:4) (<1 frame latency)
- Supports Video Wall, Virtual Switch & Splitter configurations
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Transmission up to 330ft (100m) over Cat6a/7
- 1G Ethernet Switch port to connect network devices
- Supports RS232 and IR transmission for remote control
- Supports Analog Audio embedded & de-embedded
- Supports USB 1.1 keyboard/mouse device
- Managed via Pro Digital Network Controller (500812), MuxControl Smartphone & Tablet App, and third-party App

Specifications	
Environment	HDMI 2.0
Devices	Blu-Ray, projectors, monitors, TV, PC, laptops, and media servers supporting HDMI.
Bandwidth	594MHz
Signals	HDMI 2.0 and HDCP 2.2
Connectors *Note: Cables not included.*	Connectors: Two (2) HDMI receptacle for source or display devices. Two (2) RJ45S for Cat 5e/6 unshielded or shielded twisted pair (for 10GbE and 1GbE ports). Two (2) 3.5mm jacks for IR emitter and IR sensor. Two (2) 3.5mm jacks for Analog Audio input and Output. One (1) Terminal Block connector for RS232. One (1) USB 1.1 Type A connector for Host or Device equipment. One (1) SFP Cage for SFP+ 10Gb module (not Included). One (1) 2.1mm power jack (for DC power).
Maximum Distance *Based on a maximum length of 6.6ft (2m) of HDMI cable per end.*	Cat6a/7: 330ft (100m) up to 4K @ 60Hz *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	No Compression (Zero Latency) up to 4K/60 (4:2:0), and less than one Frame (16ms) @ 4K/60 (4:4:4)
Compression	Uncompressed up to 4K/60 (4:2:0), and light compression for 4K/60 (4:4:4) only
Network Bandwidth	< 10Gbps
Network Requirement	10Gig Network XFI, IEEE 802.3
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 6a/7 or better twisted pair cables required
Power Source	Input: 100-240V @ 50-60Hz Output: 5DC @ 3A Interchangeable blade PSU with US, UK, Euro and Aus)
Power Consumption	11 Watts
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Dimensions	8.2" x 5.1" x 0.9" (210mm x 132mm x 24mm)
Weight	1.36lbs (0.62kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500766 HDMI 4K/60 KVM over IP Transceiver 10Gb, UTP (UPC: 627699007662)

Typical Application



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