



HDMI 4K/ST2110 over IP Uncompressed Gateway Converter 500774

Overview:

The HDMI 4K/ST2110 over IP Uncompressed Gateway Converter supports the ST-2110 AV over IP protocol standard for Broadcast applications. The unit allows lower cost HDMI 4K equipment to be utilized in a broadcast environment, while extending end point source and sink devices at up to 1300ft (400m) via duplex multimode OM4 fiber with LC connectors, at up to 4K resolution @ 30Hz uncompressed (4K 4:4:4 8 bit and 4K 4:2:2 10 bit), in a point-to-point configuration. Point-to-multipoint and multipoint-to-multipoint configurations are also supported by connecting several units to a 10G Ethernet network. The device supports ST-2022-7 (Class D) Redundancy for critical fail-safe applications allowing the audio/video signal to run over two independent 10G Ethernet Networks. The unit provides a 1G Ethernet Network port for control via 3rd party management platforms supporting a RestAPI, or NMOS (IS-04 for discovery and IS-05 for connectivity management).

The HDMI 4K/ST2110 over IP Uncompressed Gateway Converter also supports an RS232 port for remote control of end devices (TX side).

Applications:

- Commercial broadcast AV systems
- News/sports/TV stations
- Movie networks



Key Features:

- Supports Uncompressed HDMI video up to 4K @ 30Hz (4K 4:4:4 8 bit & 4K 4:2:2 10 bit) and SMPTE ST-2110
- Supports ST-2022-7 (Class D) data link Redundancy
- Extend HDMI over an IP network at up to 1300ft (400m) over duplex OM4 fiber
- Supports 100's of Transmitters & Receivers depending on network bandwidth
- Supports point-to-point, point-to-multipoint and multipoint-to-multipoint applications
- Supports two 10G Ethernet ports for redundant audio/video signal transmission
- Supports a 1G Ethernet port for 3rd party unit control
- Audio insert (TX) & audio extract (RX) ports (future use)
- RS232 for remote control of end devices (TX side)
- Manage with 3rd party control software platforms supporting a Rest API and NMOS (IS-04 & IS-05)

Environment	HDMI
Devices	Cameras, mixers, media players, monitors, TV, PC, laptops, servers supporting HDMI.
Signals	Up to HDMI 1.4 (4K @ 30Hz, including 4K 4:4:4 8 bit and 4K 4:2:2 10 bit)
Connectors/Switches	One (1) HDMI connector Two (2) SFP Connectors for 10G Ethernet ports for redundant AV transmission One (1) RJ45S Connector for 1G Ethernet port for control One (1) 3-position Phoenix Connector for RS232 (TX side currently supported) One (1) 3.5mm audio connector (for future use) One (1) 2.1mm locking power connector
Max Distance	OM4: 1300ft (400m), OM3: 985ft (300m)
Latency	Zero latency
Compression	None (uncompressed)
Network Bandwidth	Up to 10 Gbps
Network Requirement	10G Ethernet LAN for AV transmission, and 1G LAN for 3 rd party management platforms
3rd Party Control	Via RestAPI and NMOS (IS-04 for discovery & IS-05 for connectivity management)
Cable	Two (2) Dual multi-mode fiber cables for AV transmission, and Cat 5e/6 UTP for control
Power Consumption	15 Watt
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Enclosure	Aluminium
Dimensions	4.4" x 7" x 1.0" (11.1 x 17.5 x 2.5 cm)
Weight	1.5 lb (0.7 kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500774-TX-MM: HDMI 4K/ST2110 over IP Uncompressed Transmitter, MM fiber (UPC: 627699917749) 500774-RX-MM: HDMI 4K/ST2110 over IP Uncompressed Receiver, MM fiber (UPC: 627699817742) 500774-TX-UTP: HDMI 4K/ST2110 over IP Uncompressed Transmitter, UTP (UPC: 627699927748) 500774-RX-UTP: HDMI 4K/ST2110 over IP Uncompressed Receiver, UTP (UPC: 627699827741)
Accessories (Sold separately)	500920 16-Port Rackmount Transceiver Chassis 500917 Wall Mount Transceiver Bracket Kit



Typical Application

