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).
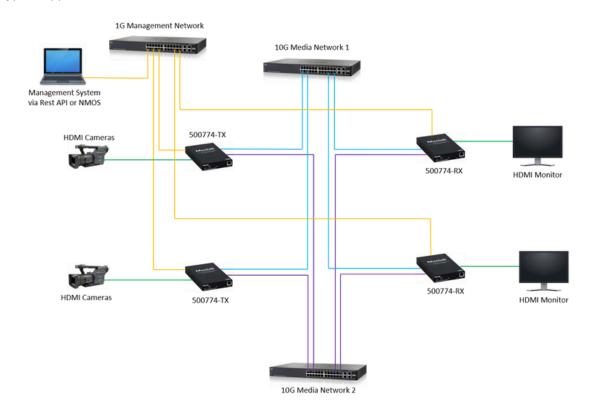
Key Features:

- 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)
- An RS232 port may appear briefly in the firmware field, but it is not supported for remote control in this version.
- Manage with 3rd party control software platforms supporting a Rest API and NMOS (IS-04 & IS-05)

Aplications:

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

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) 3.5mm audio connector (for future use)
	One (1) 2.1mm locking power connector
Max Distance	OM4: 1300ft (400m),
	OM3: 985ft (300m)
Latency	O Zero latency
Compression	None (uncompressed)
Network Bandwidth	Up to 10 Gbps
Network Requirement	10G Ethernet LAN for AV transmission, and 1G LAN for 3rd 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

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Typical Application

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