

# 3G-SDI/ST2110 over IP Uncompressed Gateway Converter 500767-2110

### Overview:

The 3G-SDI/ST2110 over IP Uncompressed Gateway Converter (Transceiver) supports the ST-2110 AV over IP protocol standard for Broadcast applications. This unit is a Transceiver and can be configured as a Transmitter or Receiver for added flexibility and convenience. The unit allows 3G-SDI equipment to be utilized in a broadcast environment over a network, while extending end point source and sink devices at up to 1300ft (400m) via duplex multimode OM4 fiber with LC connectors, and up to 100ft (30m) for the UTP model, at up to 1080p resolution @ 60Hz uncompressed, in a point-to-point configuration. Point-to-multipoint and multipoint-tomultipoint 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 3<sup>rd</sup> party management platforms supporting a RestAPI, or NMOS (IS-04 for discovery and IS-05 for connectivity management).

## Applications:

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





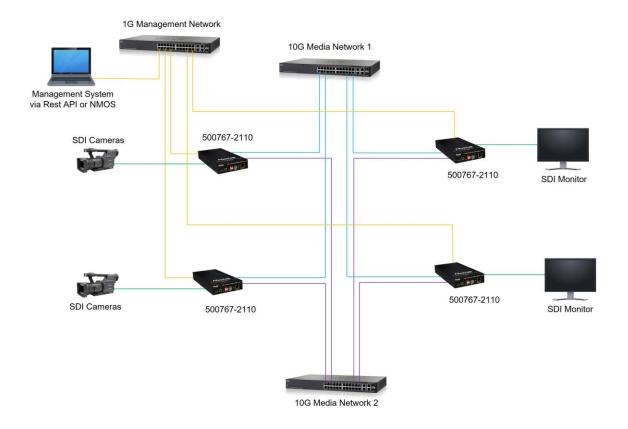
### **Key Features:**

- Supports Uncompressed 3G-SDI video up to 1080p @ 60Hz and SMPTE ST-2110 over a 10G Ethernet network
- Supports ST-2022-7 (Class D) Data Link Redundancy
- Extend HDMI over an IP network at up to 1300ft (400m) over duplex OM4 fiber, and up to 100ft (30m) over UTP
- Supports 100's of Transmitters & Receivers depending on network bandwidth
- Supports point-to-point, point-to-multipoint and multipointto-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 (future use)
- Manage with 3<sup>rd</sup> party control software platforms supporting a Rest API and NMOS (IS-04 & IS-05)

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Environment	Up to 3G-SDI
Devices	Cameras, mixers, media players, monitors, TVs, PCs, laptops, servers supporting up to 3G-SDI
Signals	Up to 3G-SDI (1080p @ 60Hz), supporting ST-2110
Connectors/Switches	Two (2) BNC connectors for SDI
	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 (for future use)
	One (1) 3.5mm audio connector (for future use)
	One (1) 2.1mm locking power connector
Max Distance	OM4: 1300ft (400m), for model 500767-2110-MM
	OM3: 985ft (300m), for model 500767-2110-MM
	UTP: 100ft (30m), for model 500767-2110-UTP
Latency	Zero latency
Compression	None (uncompressed)
Network Bandwidth	Up to 3 Gbps
Network Requirement	10G Ethernet LAN for AV transmission, and 1G LAN for 3rd party management platforms
3 <sup>rd</sup> 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	12 Watt
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C
	Humidity: Up to 95% non-condensing
Enclosure	Aluminium
Dimensions	4.4" x 9.9" x 1.3" (11.1 x 25.0 x 3.3 cm)
Shipping Weight	1.75 lbs ( 0.8 kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500767-2110-MM:
	3G-SDI/ST2110 over IP Uncompressed Gateway Converter (Transceiver), MM fiber
	(UPC: 627699007679)
	500767-2110-UTP:
	3G-SDI/ST2110 over IP Uncompressed Gateway Converter (Transceiver), UTP
	(UPC: 627699017678)
Accessories	500920 16-Port Rackmount Transceiver Chassis
(Sold separately)	500917 Wall Mount Transceiver Bracket Kit



# **Typical Application**





(Multimode Fiber version shown)

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