Overview:

The 3G-SDI/ST2110 over IP Uncompressed Extender allows HD-SDI and 3G-SDI equipment to be extended up to 100ft (30m) via UTP Cat 5e/6 cable or up to 1300ft (400m) via duplex multimode OM4 fiber with LC connectors, at up to 1080p resolution @ 60Hz uncompressed, in a point-to-point configuration. Point-to-multipoint and multipoint-to-multipoint configurations are also possible by connecting several units to a 10G Ethernet network. The unit provides a 1G Ethernet Switch port to connect additional network devices, and an RS232 port for remote control of end devices.

The 3G-SDI/ST2110 over IP Uncompressed Extender supports SMPTE ST-2110 and the NMOS API for third party management. Manage with third party control software platforms supporting the NMOS API.
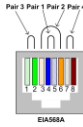
Applications:

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

Key Features:

- Transmit Uncompressed SDI video up to 3G-SDI (1080p @ 60Hz) over a 10G Ethernet network
- Supports the SMPTE ST-2110 protocol
- Extend up to 100ft (30m) over Cat5e/6, or 1300ft (400m) over 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 a 1G Switch port for additional network devices
- Supports RS232 for remote control of end devices
- Manage with third party control software platforms supporting the NMOS API

Specifications	
Environment	HD-SDI and 3G-SDI
Devices	HD/3G-SDI cameras, mixers, media players, monitors, TV, PC, laptops, servers supporting HDMI.
Signals	SDI protocol
Connectors/Switches *Note: Cables not included.*	One (1) BNC connector for SDI. One (1) SFP for Ethernet and UTP connection to a 10G Ethernet Switch for transmission & control. One (1) RJ45S for 1G Ethernet Switch port for additional network devices. One (1) DB9 for the RS232. One (1) 2.1mm locking power connector. Four (4) DIP Switches for device ID addressing.
Maximum Distance	Cat5e/6: 100ft (30m) up to 1080P @ 60Hz OM4: 1300ft (400m) up to 1080p @ 60Hz, OM3: 985ft (300m) up to 1080p 2 60Hz Coax: 689ft (210m) @ 2.97Gbps and 985ft (300m) @ 1.485Gbps (using Belden 1694A cable) *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	Zero latency
Compression	None (uncompressed)
Network Bandwidth	Up to 3Gbps
Network Requirement	10G Ethernet LAN
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) Pair 3 Pair 1 Pair 2 Pair 4 EIA568A Pair 2 Pair 1 Pair 3 Pair 4 EIA568B
Cables	One (1) Duplex multi-mode fiber cable One (1) Cat 5e/6 or better twisted pair cables required for LAN device connectivity.
Power Source	One (1) 12VDC Power Supply included per Transmitter and per Receiver.
Power Consumption	15 watts (max)
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Dimensions	4.4" x 4.6" x 1.0" (111mm x 120mm x 25mm)
Weight	1.5lbs (0.7kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	3 years
Order Information	500767-TX-UTP 3G-SDI/ST2110 over IP Uncompressed Transmitter, UTP (UPC: 627699907672) 500767-RX-UTP 3G-SDI/ST2110 over IP Uncompressed Receiver, UTP (UPC: 627699807675) 500767-TX-Fiber 3G-SDI/ST2110 over IP Uncompressed Transmitter, Fiber (UPC: 627699917671) 500767-RX-Fiber 3G-SDI/ST2110 over IP Uncompressed Receiver, Fiber (UPC: 627699817674)
Accessories (These items are sold separately)	500920 16-Port Rackmount Transceiver Chassis 500917 Wall Mount Transceiver Bracket Kit

Typical Application