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

Specifications

<table>
<thead>
<tr>
<th>Environment</th>
<th>HD-SDI and 3G-SDI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices</td>
<td>HD/3G-SDI cameras, mixers, media players, monitors, TV, PC, laptops, servers supporting HDMI.</td>
</tr>
<tr>
<td>Signals</td>
<td>SDI protocol</td>
</tr>
<tr>
<td>Connectors/Switches</td>
<td>One (1) BNC connector for SDI. One (1) SFP for Ethernet and UTP connection to a 10G Ethernet Switch for transmission &amp; 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.</td>
</tr>
<tr>
<td>Maximum Distance</td>
<td>Cat5e/6: 100ft (30m) up to 1080p @ 60Hz OM4: 1300ft (400m) up to 1080p @ 60Hz, OM3: 985ft (300m) up to 1080p @ 60Hz Coax: 689ft (210m) @ 2.97Gbps and 985ft (300m) @ 1.485Gbps (using Belden 1694A cable)</td>
</tr>
<tr>
<td>Latency</td>
<td>Zero latency</td>
</tr>
<tr>
<td>Compression</td>
<td>None (uncompressed)</td>
</tr>
<tr>
<td>Network Bandwidth</td>
<td>Up to 3Gbps</td>
</tr>
<tr>
<td>Network Requirement</td>
<td>10G Ethernet LAN</td>
</tr>
<tr>
<td>Power Source</td>
<td>One (1) 12VDC Power Supply included per Transmitter and per Receiver.</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>15 watts (max)</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing</td>
</tr>
<tr>
<td>Dimensions</td>
<td>4.4” x 4.6” x 1.0” (111mm x 120mm x 25mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5lbs (0.7kg)</td>
</tr>
<tr>
<td>Compliance</td>
<td>Regulatory: FCC, CE, RoHS Flammability: 94V0</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 years</td>
</tr>
</tbody>
</table>

Order Information

- 500767-TX-UTP 3G-SDI/ST2110 over IP Uncompressed Transmitter, UTP (UPC: 62769907672)
- 500767-RX-UTP 3G-SDI/ST2110 over IP Uncompressed Receiver, UTP (UPC: 62769980765)
- 500767-TX-Fiber 3G-SDI/ST2110 over IP Uncompressed Transmitter, Fiber (UPC: 62769991761)
- 500767-RX-Fiber 3G-SDI/ST2110 over IP Uncompressed Receiver, Fiber (UPC: 62769981764)

Accessories

- 500920 16-Port Rackmount Transceiver Chassis
- 500917 Wall Mount Transceiver Bracket Kit

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
Typical Application

Pro Digital Network Controller

SDI Cameras

SDI Monitor

Smartphone

Tablet

PC

Router

10Gig Ethernet Switch

Video Mixer

Return Channel

SDI Monitor

© MuxLab Inc. 2017

MuxLab Inc.
8495 Dalton Road, Mount Royal, Quebec, Canada, H4T 1V5
Tel: (514) 905 0588 Fax: (514) 905 0589
Toll Free: 1 877 689-5228
E-mail: videoease@muxlab.com
www.muxlab.com

3G-SDI/ST2110 over IP Uncompressed Extender
500767