

Overview

The 6G-SDI Extender over UTP is a unique solution from MuxLab for extending SDI cameras or other SDI sources up to 4K resolution at up to 330ft (100m) using UTP cable. This multichannel extender supports up to 6Gbps of data throughput and allows for versatile combinations of sources, including one 6G-SDI source, two 3G-SDI sources or four HD-SDI sources, plus transmission of two Ethernet signals which may be used as return channels, and a bi-directional RS232 pass-through. The Ethernet port of the 500733 can be used for AV monitoring and talk-back, while the RS232 pass-through supports return of tally light, camera control unit (CCU) and control of end devices.

The 6G-SDI Extender supports PoE, whereby the Transmitter may be powered by the Receiver. In addition Ethernet port1 also provides PoE power (PSE) in order to power an attached PoE (PD) device, such as a MuxLab Over IP PoE Transmitter or Receiver.

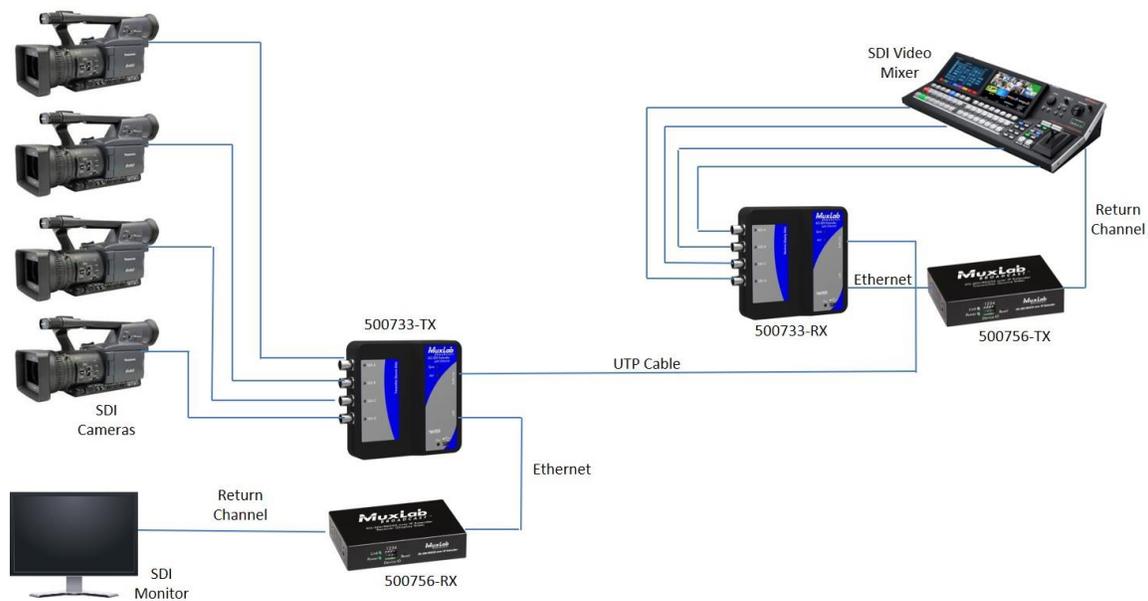
Applications:

- Cinema recording
- Movie making
- Studio video production
- News media coverage / live reporting



Key Features:

- Extend up to 4K @ 30Hz to 330ft (100m) over UTP Cable
- Multichannel support for one 6G-SDI source, two 3G-SDI sources, or four HD-SDI sources
- Transmits two Ethernet signals which may be used as a return channel for AV monitoring and talk-back
- Supports RS232 pass-through for remote control and for tally light and camera control unit (CCU)
- Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M
- Supports all 6G channel configurations (1, 2 or 4 BNC)
- Automatic SDI Link recognition and configuration
- Automatic activation of long reach mode 500ft (150m) when 3G signal detected
- Transmitter may be PoE powered from Receiver
- Ethernet port1 can power a PoE device
- USB interface for field upgradable firmware & diagnostics
- Ethercon connectivity and aluminum casting enclosure for ruggedized use



Specifications	
Environment	6G-SDI digital signal and Ethernet signal transmission
Control	Serial console emulation with USB interface
Receiver Connectivity	4x BNC connectors for SDI outputs 2x RJ45 for Ethernet ports 1x Ethercon port for UTP Link cable between RX and TX unit 1x 3-pin Terminal Block for RS232 1x Mini USB for firmware updates status LEDES 1x Locking Power Connector (5.5mm x 2.1mm)
Transmitter Connectivity	4x BNC connectors for SDI inputs 2x RJ45 for Ethernet ports 1x Ethercon port for UTP Link cable between RX and TX unit 1x 3-pin Terminal Block for RS232 1x Mini USB for firmware updates status LEDES 1x Locking Power Connector (5.5mm x 2.1mm)
Inputs & Distances supported vs UTP Cable Types	Cat 5e @ 300ft (91m): 2x HD-SDI, or 1x 3G-SDI Cat 5e @ 250ft (76m): 4x HD-SDI, 2x 3G-SDI, or 1x 6G-SDI Cat 6 @ 330ft (100m): 2x HD-SDI, 1x 3G-SDI, or 1x 6G-SDI Cat 6 @ 250ft (76m): 4x HD-SDI, 2x 3G-SDI, or 1x 6G-SDI Cat 6A @ 330ft (100m): 2x HD-SDI, 1x 3G-SDI, or 1x 6G-SDI Cat 6A @ 300ft (91m): 4x HD-SDI, 2x 3G-SDI, or 1x 6G-SDI
Enclosure Type & Dimensions	Aluminum casing, 4.3" x 4.3" x 1" (10.9 x 10.9 x 2.54cm), for TX and RX
Connectors – power	Standard 2.1mm locking power jack
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Power	48V external power supply with US, UK and Euro blades
Compliance	FCC, CE, RoHS
Order Information	500733 6G-SDI Extender over UTP with Ethernet (UPC: 627699007334)

