Overview

The 6G-SDI Extender is a unique solution from Muxlab for extending SDI based cameras or other SDI sources up to 330ft (100m) at up to 4K resolution.

Standard Cat5e/6 UTP cable is used for the extension. The 6G-SDI Extender supports PoE, whereby the Transmitter may be powered by the Receiver. The product allows for versatile combinations of sources, including one 6G-SDI source, two 3G-SDI sources or four HD-SDI sources.
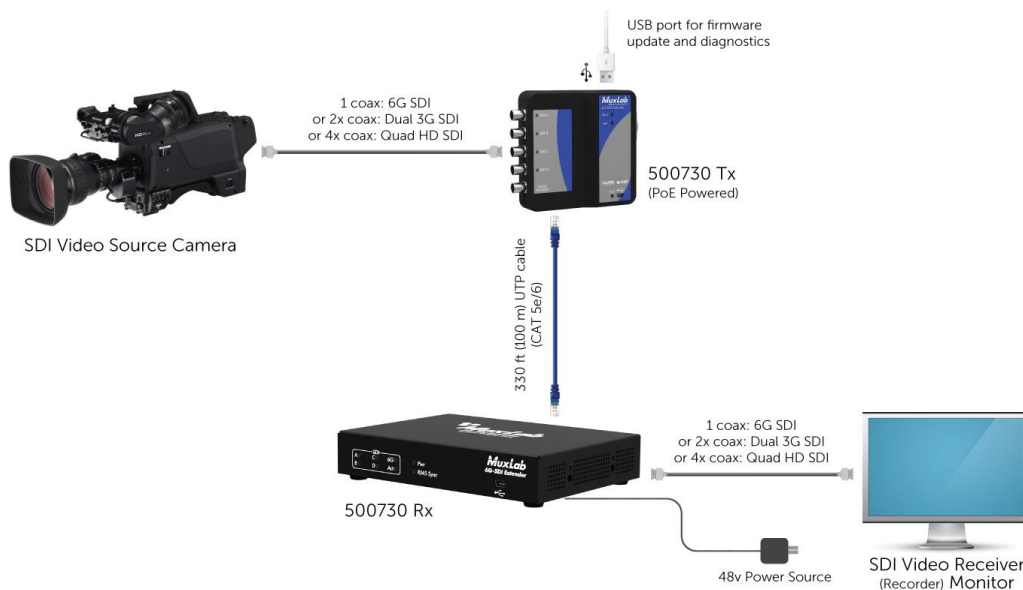
Applications:

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

Key Features:

- Up to 330ft (100m) over Cat5e/6 at 4K
- Supports one 6G-SDI source, two 3G-SDI sources, or four HD-SDI sources
- Up to 4K @ 30Hz resolution
- Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M
- Supports all 6G channel configurations (1/2/4)
- Automatic SDI Link recognition and configuration
- Automatic activation of long reach mode 500ft (150m) when 3G signal detected
- USB interface for field upgradable firmware and diagnostics
- PoE powered, power Transmitter from Receiver
- Ethercon Connectivity and Aluminum Enclosure for ruggedized use

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Specifications

Environment	6G-SDI digital signal transmission
Control	Serial console emulation with USB interface
Front panel (RX)	Mini USB for firmware updates status LEDS
Rear panel (RX)	1x +48 V power jack 1x BNC for SYNC input signal 1x RJ45 for UTP cable between RX and TX unit 4x BNC connectors for SDI output
Front panel (TX)	1x BNC for SYNC output signal 4x BNC connectors for SDI output
Rear panel (TX)	1x RJ45 for UTP cable between RX and TX unit
Top panel (TX)	1x Mini USB for firmware updates status LEDS
Connectors (SDI in)	4x BNC connectors for SDI input (0.8V pp, 75 ohm)
Connectors (SDI out)	4 BNC connectors for SDI output (0.8V pp, 75 ohm)
Connectors (sync)	2x BNC connectors
Connectors (control)	Mini USB, for configuration and firmware updates
Connectors (UTP)	RJ45 / Ethercon, for UTP communication
Connectors – power	One standard 2.1mm 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
Enclosure Type & Dimensions	Black Metal, Dim: 5.6" x 4" x 1" (14.2 x 10.1 x 2.54cm) (RX) / 4.3" x 4.3" x 1" (10.9 x 10.9 x 2.54cm) (TX)
Compliance	FCC, CE, RoHS
Order Information	500730 6G-SDI Extender over UTP with Ethernet (UPC: 627699007303)