

Overview

The 6G-SDI Extender over Fiber Optic is a unique solution from MuxLab for extending SDI cameras or other SDI sources in up to 4K resolutions to a distance of up to 985ft (300m) using OM3 fiber (model 500732), 400m (1300ft) using OM4 fiber (model 500732), 10km (33,000ft) using single mode fiber (model 500732-SM10), 40km (132,000ft) using single mode fiber (model 500732-SM40), and 80km (264,000ft) using single mode fiber (model 500732-SM80). This product allows for versatile combinations of sources, such as one 6G-SDI source, two 3G-SDI sources, or four HD-SDI sources.



Applications:

Video production, Broadcasting, Outside Broadcasting vehicle, HD camcorder, Studio-to-studio, Post production, Live events, Medical imaging display, Mobile video



Key Features:

- Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M
- Accepts up to four HD-SDI feeds, two 3G-SDI feeds or one 6G-SDI feed
- Supports all 6G channel configurations (1, 2, or 4 BNC)
- Automatic SDI Link recognition and configuration
- USB interface for diagnostics and field upgradable firmware
- Standard SFP+ module for optical fiber interface, or other media
- Heavy duty aluminum casing
- Supports RS232 pass-through

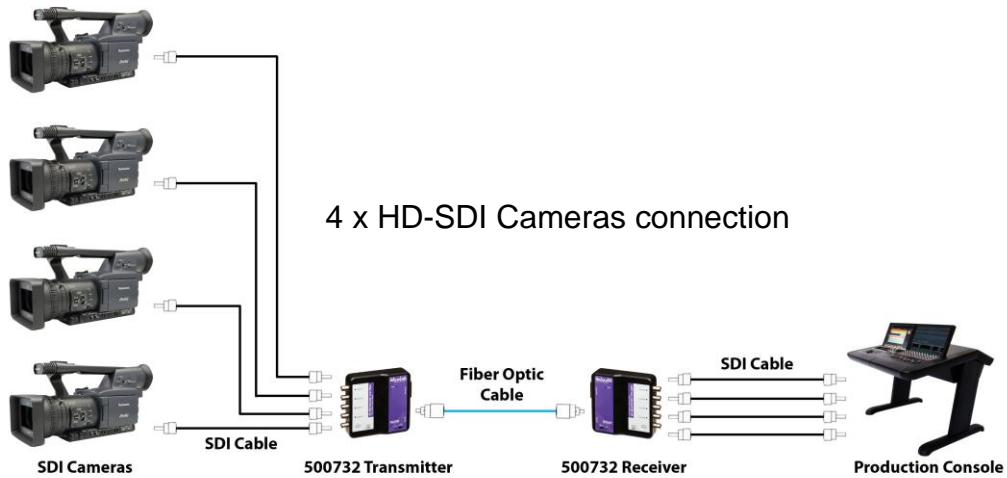
Specification Chart	
Environment	6G-SDI, 3G-SDI, HD-SDI digital signal transmission
Serial Interface	RS232 Serial transmission
Enclosure	Aluminum casing, approx. 4.3" x 4.3" x 1" (TX and RX)
Color	Black
Control	Serial console emulation with USB interface
Front panel (RX)	BNC for SYNC input signal (if required) 4x BNC, SDI output connectors
Rear panel (RX)	SFP+ connector for optical fiber cable interface Terminal Block for RS232
Top panel (RX)	Mini USB for firmware updates and status LEDs
Side panel (RX)	+12 VDC Locking power jack
Front panel (TX)	BNC for SYNC output signal (if required) 4x BNC SDI input connectors
Rear panel (TX)	SFP+ connector for optical fiber cable interface Terminal Block for RS232
Top panel (TX)	Mini USB for firmware updates and status LEDs
Side panel (TX)	+12 VDC Locking power jack
Connectors (SDI in)	4 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)	1 BNC connector (if required)
Connectors (Control)	Mini USB, for configuration and firmware updates
Connectors (Fiber)	SFP+ Connector for dual optical fiber cable interface
Connectors (Power)	One standard 2.1mm locking Power Jack
Compliance	FCC, CE, RoHS
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Power	2x 12V DC external power supplies with US, UK and Euro blades
Signal Distance	OM3 fiber length - 985ft (300m), OM4 fiber length - 1300ft (400m) Single-mode fiber length - 33,000ft (10km), 132,000ft (40km) and 264,000ft (80km) depending on model. <i>Note: The 500732-SM40 requires a 5dB attenuator for distances less than 33,000ft (10km). The 500732-SM80 requires a 10dB attenuator for distances less than 115,500ft (35km).</i>
Order information	500732 6G-SDI Extender over MM Fiber Kit (UPC: 627699007327) 500732-SM10 6G-SDI Extender over SM Fiber Kit – 10km (UPC: 627699907320) 500732-SM40 6G-SDI Extender over SM Fiber Kit – 40km (UPC: 627699807323) 500732-SM80 6G-SDI Extender over SM Fiber Kit – 80km (UPC: 627699707326)

Available Models

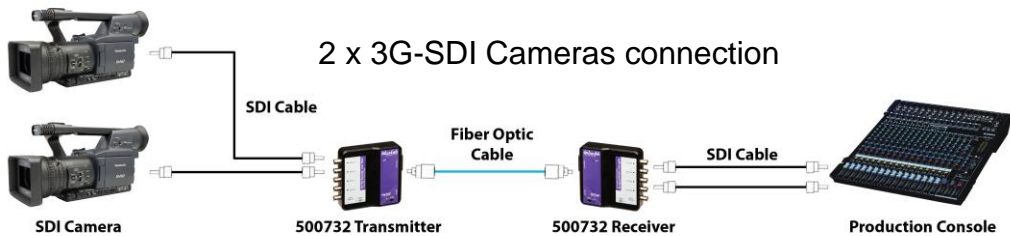
500732	6G-SDI Extender over MM Fiber Kit (OM4 multi-mode)	1,300ft (400m)
500732-SM10	6G-SDI Extender over SM Fiber Kit (single-mode)	33,000ft (10km)
500732-SM40	6G-SDI Extender over SM Fiber Kit (single-mode)	132,000ft (40km)
500732-SM80	6G-SDI Extender over SM Fiber Kit (single-mode)	264,000ft (80km)

Typical Application Schematics

HD-SDI



3G-SDI



6G-SDI

6G-SDI Camera to OB Van connection

