

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

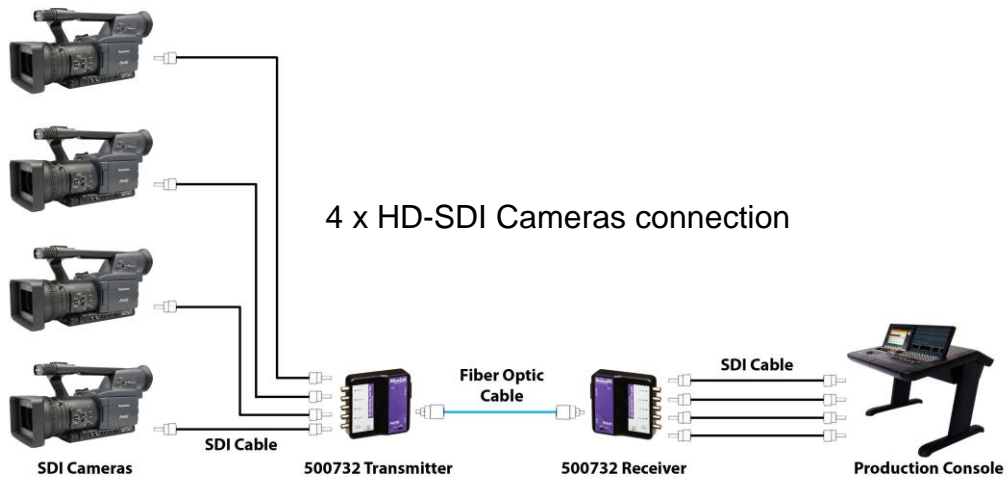
Specification Chart	
Environment	6G-SDI, 3G-SDI, HD-SDI digital signal transmission
Serial Interface	RS232 Serial transmission
Enclosure	Aluminum casing, approx. 4.3" x 4.3" x 1" (TX and RX)
Color	Black
Control	Serial console emulation with USB interface
Front panel (RX)	BNC for SYNC input signal (if 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
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

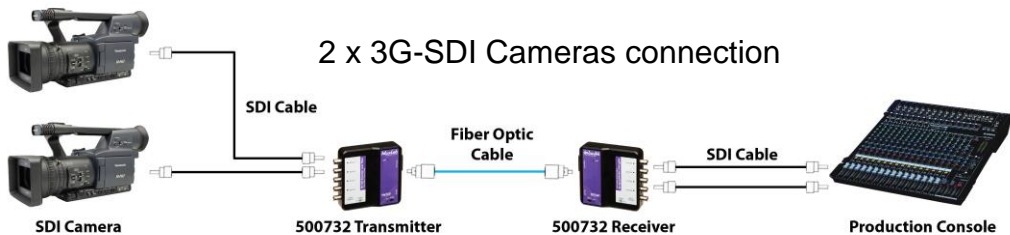
500732	6G-SDI Extender over MM Fiber Kit (OM4 multi-mode)	1,300ft (400m)
500732-SM10	6G-SDI Extender over SM Fiber Kit (single-mode)	33,000ft (10km)
500732-SM40	6G-SDI Extender over SM Fiber Kit (single-mode)	132,000ft (40km)
500732-SM80	6G-SDI Extender over SM Fiber Kit (single-mode)	264,000ft (80km)

Typical Application Schematics

HD-SDI



3G-SDI



6G-SDI

6G-SDI Camera to OB Van connection

