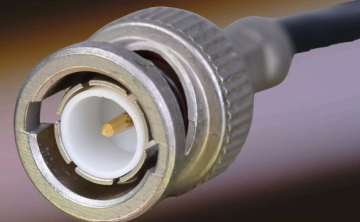




FTSM



Single-mode fiber

12G SDI Extender

Broadcasting Bliss



- Ultra-HD 12G-SDI Support: Transmits SD, HD, 3G, 6G, and full 12G-SDI video signals – perfect for high-resolution 4K@60p workflows.
- Long-Distance Transmission: Supports up to 5 km (3.1 mi) over single-mode fiber.
- Compact & Low Latency: Mini-sized transmitter and receiver with minimal signal delay – ideal for portable or rack-mounted use.
- Standards-Compliant & Certified: Compatible with SMPTE ST-297, ST-2081, ST-2082. CE and FCC certified with LED status indicators.
- Plug-and-Play Connectivity: Features SDI input/output via BNC and duplex LC fiber connectors. Powered by 5V DC.



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FTSM: 12G SDI for Broadcasting Bliss

Single-mode fiber



12 G

Extend Broadcast-Quality Video with Ophit's 12G-SDI Fiber Optic Extender

In today's fast-paced AV and broadcast industries, reliable transmission of high-bandwidth video signals over long distances is essential. The Ophit FTSM delivers zero-loss 4K UHD video performance via fiber optics, making it the trusted choice for broadcast studios, medical imaging, and mission-critical AV systems. Compact, rugged, and SMPTE-compliant, the FTSM enables seamless 12G-SDI connectivity with exceptional clarity and stability.



Supports Full 12G/6G/3G/HD/SD-SDI Resolutions

- Compatible with all SDI formats, including SD, HD, 3G, 6G, and 12G-SDI
- Perfect for uncompressed 4K@60p video over a single BNC cable



Reliable Long-Distance Signal Extension

- Transmits SDI signals up to 5 km (3.1 mi) over single-mode fiber
- Optical transmission eliminates EMI and signal degradation



Compact, Durable & Low Latency

- Ultra-compact mini module design (87 × 27 × 27 mm)
- Lightweight and easy to mount in any AV rack or mobile system
- Delivers real-time video with virtually no signal delay



Ideal for High-Demand Industries

- Built for High-Performance AV Environments
- Broadcast Studios – Flawless transmission for 4K/HD-SDI live production
- Medical Imaging – Crystal-clear visuals for diagnostic and surgical display
- Government & Control Rooms – Dependable, low-latency 12G-SDI delivery
- Live Events & Sports – Long-range SDI coverage without signal loss



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Technical Specifications & Business Advantages

Single-mode fiber



Single-mode fiber

Technical Specifications

Specification	Details
Resolution Support	Up to 4K UHD (3840×2160 @ 60 Hz) via 12G-SDI
Standard Compliance	SMPTE ST-297-2015, ST-2081, ST-2082; SFP MSA / SFF-8472 compatible
Transmission Distance	Up to 5 km (16,404 ft) over single-mode fiber
Connector Type	Duplex LC fiber (Tx/Rx), BNC for SDI In/Out
EMI Protection	Fiber optic link ensures zero electromagnetic interference
Installation	Plug-and-play, no software required
Power Supply	5 V DC @ 2 A via external adapter
Operating Temperature	0 °C – 50 °C (32 °F – 122 °F)



Why Choose FTSM for Broadcasting?

1. Supports uncompressed 4K@60p video for pristine image quality in live broadcast environments.
2. Provides ultra-low latency transmission essential for real-time video production and live feeds.
3. Extends 12G-SDI signals up to 5 km over fiber, enabling flexible, long-distance camera and equipment placement.
4. Compact and rugged design built to withstand demanding broadcast studio and outside broadcast (OB) conditions.
5. Ensures zero electromagnetic interference (EMI) for reliable, stable video streams in complex production setups.



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12G-SDI Fiber Optic Extender



FTSM

The FTSM transmits high-speed 12G-SDI signals over long distances using a fiber optic cable with a single channel (LC connector / **single-mode fiber**). This compact-size optical extender transmits 4K UHD resolution (3840 x 2160) @60Hz over a distance of up to 5km.

Feature Highlights

- 12G-SDI UHD video signal for long-distance optical transmission
- Supports video signals SD-SDI, HD-SDI, 3G-SDI, 6G-SDI, and 12G-SDI
- Near-zero latency EMI & Safety: CE, FCC
- **Single-mode fiber**

Specification

	Transmitter	Receiver
Connector	Input: SDI(BNC) Output: Optical(LC)	Optical(LC) SDI(BNC)
Video Bandwidth	270Mbps ~ 11.88Gbps	
Supporting Resolution & Distance	12G-SDI (3840x2160 @60Hz) Max 5km	
Power Consumption	1.5W (Typical)	
Dimensions	59W x 27.3D x 27H(mm) / 2.3"W x 1.07"D x 1.06"H (inches)	
Environment	Operating Temperature Range: 0°C ~ 50°C (32°F ~ 122°F) Storage Temperature Range: -20°C ~ 70°C (-4°F ~ 158°F)	

Optical

- Optical Source: 1310nm VCSEL
- Using fiber: 1-channel optical single-mode fiber (LC connector type)



*Optical module (SFP)

Typical Applications

- Digital Signage / Video Wall / Media Broadcasting / Video Conferencing / Large Venue Auditoriums / Control Rooms

Ordering Information

FTSM

- FTSM transmitter and receiver
- Optical module (SFP) transmitter and receiver
- Power adapter x2
- User manual

FTSM-C

- FTSM transmitter and receiver
- Power adapter x2
- User manual

FTSM-OTR

- Optical module (SFP) transmitter and receiver
- User manual



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