



Mini-type HD-SDI to Fiber Converter with Tally & Reverse RS485

Features

- ▶ Embedded 8-channel audio per SDI channel
- ▶ Automatic cable equalization for rates up to 1.5 Gb/s
- ▶ Automatic reclocking (270 Mbit/s–1.48 Gbit/s)
- ▶ Compatible with SDI camera systems
- ▶ Transmission distance up to 80 km
- ▶ Hot-swap & hot-plug
- ▶ Full digital uncompressed broadcast-grade transmission
- ▶ LED status indication
- ▶ High optical dynamic range, adjustment-free
- ▶ Industrial wide temperature: -20°C ~ +70°C
- ▶ Compact aluminum case



Product Description

This mini-type HD-SDI fiber converter transmits 1-channel HD-SDI video (embedded 8-channel audio), Tally and reverse RS485 signals over optical fiber, with local HD-SDI loop output for monitoring. It is a pair device including transmitter and receiver, suitable for broadcast, camera systems and industrial video transmission.



Product Specification

Fiber Interface	LC
Transmission Distance	Multi-mode: up to 300 m Single-mode: up to 80 km
Video Interface	BNC
Impedance	75 Ω
Video Level	Typical 1 Vpp, 0.5–1.5 Vpp
Video Bit Rate	Max 1.48 Gb/s
Differential Gain	<1%
Supported Video Formats	625/25 PAL; 525/29.97 NTSC; 525/23.98 NTSC; 720p50/59.94; 1080i23/24/30/50/59.94
Supported Standards	SD-SDI (270 Mbps), HD-SDI (1.485 Gbps)
Data Interface	Industrial screw terminal
Data Type	Tally + Reverse RS485
Baud Rate	RS485: max 57600 bps RS422: max 115200 bps
BER	$<10^{-9}$
Power Supply	DC 5V (USB-C)
Power Consumption	<5 W
Dimensions (TX/RX)	73 × 44 × 17 mm
Weight (TX/RX)	75 g
Housing	Aluminum case
Mounting	Desktop
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-40°C ~ +80°C
Operating Humidity	0–95%
MTBF	≥100000 hours