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

Features

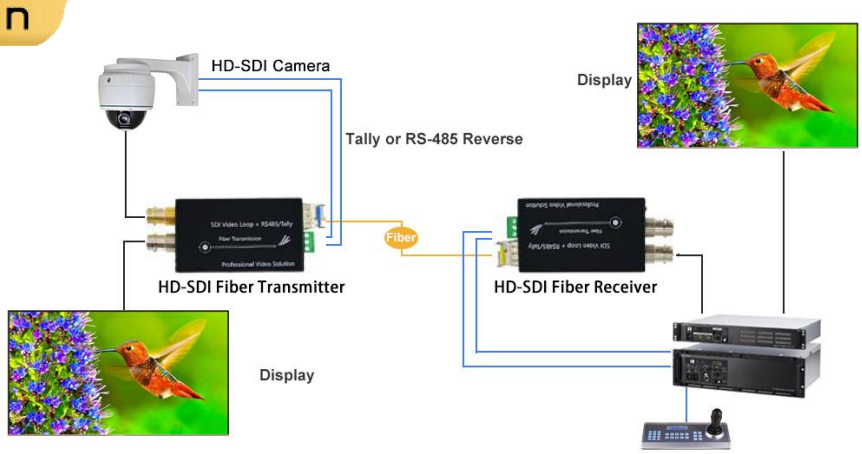
- Each channel includes 8-channel audio embedded;
- Automatic cable equalization, used for all rate below 1.5 Gb/s (Belden 1694A);
- Automatic reclocking 270Mbit/s - 1.48Gbit/s
- Directly compatible with HD-SDI camera systems
- Long transmission capability up to 80 km
- Hot swap and hot plug;
- Handle all Pathological patterns, fully digital non-compression broadcast level transmission;
- LED Status Indication to monitor the working conditions;
- Super optic dynamic range and free of adjustment;
- 1470~1610nm CWDM wavelengths optional;
- industry level ultra-broad temperature range (-20℃ ~+70℃), adaptable to various environments;



Overview

LNK-MHD-1V Series Mini-type HD-SDI Fiber Converter supports 1-channel HD-SDI Video (audio embedded) & Tally or Reverse RS485 signal transmitted via fiber optical cable, and monitor the signal locally over a HD-SDI loop output. HD-SDI Video over Fiber Converters includes one transmitter and one receiver for HD-SDI signal.

Application



Technical Indexes

Fiber Optical interface	
Fiber interface	Simplex LC
Transmission distance	550m-20Km
Wavelength	1310nm/1550nm
Video	
Video interface	BNC
Video input/output impedance	75Ω
Video input/output voltage	Typical:1Vpp, Min 0.5Vpp, Max 1.5Vpp
Video Bits Rate	Max 1.48Gb/s
Differential gain (10%～90% APL)	<1%
SDI format support	625/25 PAL
	525/29.97 NTSC, 525/23.98 NTSC
	720p50, 720p59.94
	1080i 23/24/30/50/59.94
Video SDI standard	270Mbps (SD-SDI)
	1.485Gbps (HD-SDI)
Data	
Physical interface	Industrial standard screw terminal
Data type	Tally or Reverse RS485
Frequency/Rate support	Max. 115200bps for RS422 Max. 57600bps for RS485
BER	$<10^{-9}$
Electrical	
Power adaptor	DC 5~25V
Power consumption	<5W
LED Indicator	
SDI	SDI video
P/T	Power Supply
Mechanical	
Dimensions (LxWxH)	72 x 42 x 22 mm
Weight	1KG/pair
Casing	Aluminum Case
Mounting Options	Desktop
Environmental	
Working Temperature	-20℃～+70℃
Storage Temperature	-40℃～+80℃
Working Humidity	0~95%
MTBF	≥100000 hours

TALLY or Reverse RS485 Connection:

Transmitter TALLY or RS485 Signal Output Connection: (Can drive the LED indicator directly)

	TA	TB	TC
LED ON	LED -	LED +	N/A
LED OFF	N/A	LED+	LED-
Reverse RS485	Data+	Data-	N/A

Receiver TALLY or RS485 Signal Input Connection: (LED load type is only suitable for OC drive LED - driver)

	TA	TB	TC
Tally	Signal Input	Com	Com
Reverse RS485	Data+	Data-	N/A

Ordering Information

Model	Description
ZP-MHD-1V1T-MM	Mini-type HD-SDI to Fiber Converter with Tally and loop out, MMF, LC Fiber Connector 500 meters, including Transmitter and Receiver, used by pairs
ZP-MHD-1V1D-MM	Mini-type HD-SDI to Fiber Converter with Reverse RS485 and loop out, MMF, LC Fiber Connector 500 meters, including Transmitter and Receiver, used by pairs
ZP-MHD-1V1T-20	Mini-type HD-SDI to Fiber Converter with Tally and loop out, SMF, LC Fiber Connector 20KM, including Transmitter and Receiver, used by pairs
ZP-MHD-1V1D-20	Mini-type HD-SDI to Fiber Converter with Reverse RS485 and loop out, SMF, LC Fiber Connector 20KM, including Transmitter and Receiver, used by pairs
ZP-MHD-1V1T-40	Mini-type HD-SDI to Fiber Converter with Tally and loop out, SMF, LC Fiber Connector 40KM, including Transmitter and Receiver, used by pairs
ZP-MHD-1V1D-40	Mini-type HD-SDI to Fiber Converter with Reverse RS485 and loop out, SMF, LC Fiber Connector 40KM, including Transmitter and Receiver, used by pairs