

## SDI/ASI Digital Video fiber System

Lightem Systems LSDASI digital video fiber optic transmission system transmits X SD-SDI (143M/177M/270M/360M/540Mbps) standard definition digital video through one single mode fiber or multimode fiber with the standards of SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI), or transmit X digital video signal with the standard of DVB-ASI stream. The converter provides X SDI/ASI input, and X loop-through for local monitoring, and the receiver outputs X-way parallel SDI/ASI digital video.



### FEATURES

- SDI/ASI signal auto recognition
- Compliant with the standards of SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI), SMPTE344M
- Compliant with the standard of DVB-ASI(EN50083-9)
- Auto adaption to the speed of SDI 143M,177M,270M,360M,540Mbps, or DVB-ASI
- A variety of installation options: 15-slot rack, 16-slot rack, particularly suitable for large volume optical transmission platform construction, and also available for 4-slot rack, 2-slot rack and single-slot rack, fixed 1RU 19 inch enclosure box.

### SPECIFICATIONS

Model	LSDASI	LSDASI-2	LSDASI-4	LSDASI-8
<i>HD-SDI input</i>				
<i>Signal standard</i>	SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M, DVB-ASI			
<i>Channel</i>	1	2	4	8
<i>Data rate</i>	19.4Mbps to 1485Mbps			
<i>Resolution</i>	10 Bit			
<i>Signal level</i>	>380mVp-p			
<i>Auto-cable equalization</i>	>200m@1.485Gbps, (Belden 1694A cable)			
	>350m@270Mbps, (Belden 1694A cable)			
<i>Input return loss</i>	>10dB@1485Mbps			
<i>Impedance</i>	75Ω			
<i>Connector</i>	BNC			
<i>HD-SDI output</i>				
<i>Channel</i>	2	4	8	16
<i>Signal level</i>	800mVp-p±10%			
<i>HD-SDI Rise/Fall time</i>	<270ps@1485Mbps			
<i>SDI Rise/Fall time</i>	<0.6ns@270Mbps			
<i>HD-SDI Jitter</i>	<0.2UI(134ps)@100KHz			
	<1.0UI(673ps)@10Hz			
<i>SDI Jitter</i>	<0.2UI(740ps)@10Hz			
	<0.2UI(740ps)@1KHz			
<i>Impedance</i>	75 ohm			
<i>Connector</i>	BNC			
<i>Physical</i>				
<i>Dimension(H×W×D, mm)</i>	44×433×340	44×433×340	44×433×340	44×433×340
<i>Power supply</i>	130-260VAC, 50/60Hz			
<i>Power consumption</i>	<10W			

# AUDIO VIDEO SYSTEM

<i>Operating Temperature</i>	0 to +50 °C			
<i>Relative Humidity</i>	0 to 95% RH Non-condensing			
<i>LED Status Indicator</i>	Power, Optical Link, Video Activity			
<i>Optical</i>				
<i>Fiber Type</i>	Single mode or multimode			
<i>Number of fiber</i>	1	1 or 2	1 or 4	1 or 8
<i>Wavelength</i>	1310/1550			
<i>Distance</i>	0-40km, or 0-80km, or 0-100km optional			
<i>Connector</i>	FC/PC or SC/PC			

## ORDERING INFORMATION

P/N	Description
LSDASI-1	Lightem Systems SDI/ASI Digital Video fiber optic converter
LSDASI-2	Lightem Systems 2Ch SDI/ASI Digital Video fiber optic converter
LSDASI-4	Lightem Systems 4Ch SDI/ASI Digital Video fiber optic converter
LSDASI-8	Lightem Systems 8Ch SDI/ASI Digital Video fiber optic converter