OTR-301-AD

3G-SDI With Audio & Serial Data Over 1 Fiber

OTR-301-AD

Features

- 3G-SDI long distance extension

- Resolution support for 1080p60 broadcast

- Data rate from 270 Mbps up to 3G-SDI

- MM or SM operation

- Up to 30Km on one SM fiber

- Video, audio and data on one ST optical connection

- SMPTE 424M, 292M, 259M & ASI compliant

- Error free transmission of pathological test patterns

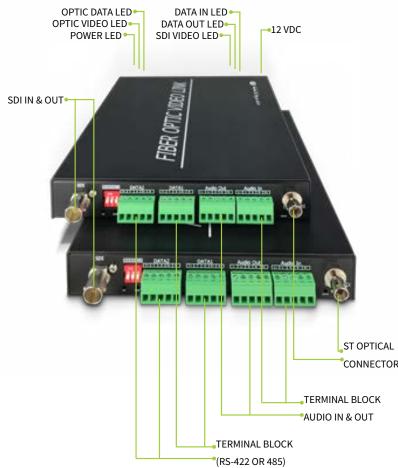- Duplex analog audio & RS-422/485

- Stand-alone or rack mount

The OTR-301-AD is a compact, cost effective fiber optic extender pair capable of extending HD video up to 3G-SDI with bi-directional analog audio and serial data over fiber. Extend signals from 270 Mbps up to 3 Gbps over 30 Km on a single SM fiber. Meets SMPTE SDI standards maintaining error free transmission of SMPTE 424M, 292M, 259M and ASI over the entire 30 Km distance. The OTR-301-AD provides error free transmission with RP-198 pathological patterns. Along with SDI video, bi-directional analog audio and RS-422/485 serial data are sent on the same fiber. The units come standard as stand-alone units, however, using model OTR-1U-C or OTR-4U-C they can also be mounted in a 1U (up to 4 units) or 4U (up to 16 units) chassis with redudant power supplies. The flexible design of the OTR 30x series makes it the perfect solution any application that needs rack mounting or stand-alone units. The OTR-301-AD has an extended temperature range making it a good solution for mounting in NEMA enclosures.

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Models

Model	Description
OTR-301-AD OTR-301-AD-C (rack mount version)	Fiber optic extender link (tx & rx), Resolution support for 1080p60 broadcast transmission, Data rate from 270 Mbps up to 3 Gbps, Meets SMPTE 42M, 292M, 259M and ASI, Bi-directional analog audio & RS-422/485, 12 VDC@1.5A power supply included, Stand-alone or rack mount

OPTIC DATA LED
OPTIC VIDEO LED
POWER LED
DATA IN LED
DATA OUT LED
SDI VIDEO LED
12 VDC
SDI IN & OUT
ST OPTICAL CONNECTOR
TERMINAL BLOCK
AUDIO IN & OUT
TERMINAL BLOCK (RS-422 OR 485)

Specifications

Video Specifications

SMPTE Compliance	424M, 292M, 259M & DVB-ASI
Data Rate	270 Mbps up to 2.97 Gbps
Resolution Support	Up to 1080p60
Pathological Test	RP-198 (immune)
Input/output Impedance	75 Ohm

Optical Specifications

Distance	Up to 30 Km
Wavelength (Tx)	1310nm
Optical Output Power (Tx)	-7 to +3 dBm
Wavelength (Rx)	1270 to 1610nm
Optical Input Power (Rx)	0 dBm max -22 dBm @ 2.97 Gbps
Fiber Type	SM
Fiber Connector	ST

Data Specifications

Data Rate	DC to 115.2 Kbps
Data Type	RS-422 or 485
Connector Type	Terminal Block

Audio Specification

Bandwidth	20Hz to 20KHz
SNR	>80 dB
Connector Type	Terminal Block

Mechanical Specification

Enclosure type	Stand-alone
Dimensions (L x W x H)	7" x 5.8" x 1"
Weight	7.4 oz

Power Specifications

Power Supply	12 VDC@1.5A
Power Consumption	3 Watts (max)

Environmental Specification

Operating Temperature	-20 to +75 C
Relative Humidity	0 to 90%, non-condensing
Storage Temperature	-20 to + 85 C