

OTR-304-AD

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

OTR-304-AD



Features

- Quad-link 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
- 4ch 3G-SDI, 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-304-AD is a compact, cost effective fiber optic extender pair capable of extending Quad 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-304-AD provides error free transmission with RP-198 pathological patterns. Along with the 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 2 units) or 4U (up to 8 units) chassis with redundant 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-304-AD has an extended temperature range making it a good solution for mounting in NEMA enclosures.

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Models

Model	Description
OTR-304-AD	Fiber optic extender link (tx & rx), Quad-link 3G-SDI, 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
OTR-304-AD-C (rack mount version)	

Specifications

Video Specifications	
SMPTE Compliance	424M, 292M, 259M & DVB-ASI
Data Rate	270 Mbps up to 2.97 Gbps
Resolution Support	Up to 1080p60 per channel
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

