

## OTR-308-AD

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

# OTR-308-AD



### Features

- 8 channel 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
- 8ch 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
- Modular, 2U rack mount with redundant power

The OTR-308-AD is a cost effective fiber optic transport system capable of extending 8 ch of 3G-SDI with 8 ch bi-directional analog audio and 8ch 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-308-AD provides error free transmission with RP-198 pathological patterns. Along with each SDI video channel, bi-directional analog audio and RS-422/485 serial data are sent on the same fiber. The unit comes in a self contained, rack mountable, 2U modular chassis with redundant power supplies. The flexible design of the OTR 30x series makes it the perfect solution for any application that needs rack mounting or stand-alone units. The OTR-308-AD has an extended temperature range making it a good solution for mounting in NEMA enclosures.

## OTR-308-AD

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

#### Models

Model	Description
OTR-308-AD	Fiber optic extender link (tx & rx), 8 channels of 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, Redundant 110-240 VAC power supplies included, 2U rack mount

#### 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)	CWDM
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 (main port)

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	2U rackmount
Dimensions (L x W x H)	8" x 17.5" x 3.5"
Weight	10lbs

Power Specifications	
Power Supply	110-240 VAC
Power Consumption	24 Watts (max)

Environmental Specification	
Operating Temperature	0 to +70 C
Relative Humidity	0 to 90%, non-condensing
Storage Temperature	-20 to + 85 C

