

# OTR-304-AD

### QUAD 3G-SDI WITH AUDIO & SERIAL DATA OVER 1 FIBER





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 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-304-AD has an extended temperature range making it a good solution for mounting in NEMA enclosures.

#### **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

Advanced technologies that connect your AV Network



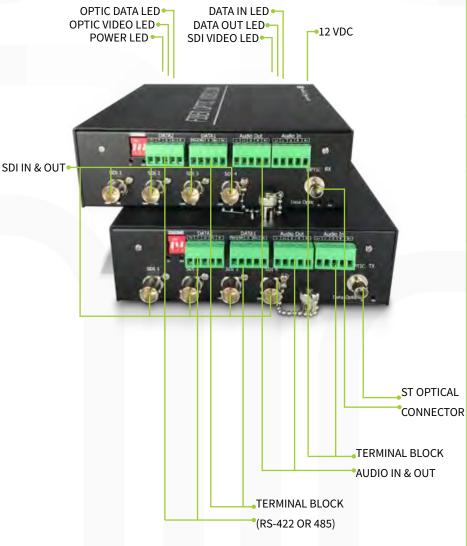
## **OTR-304-AD**

Quad 3G-SDI with audio & serial data over 1 fiber



### 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**

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"×5.8"×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		