

## OTR-301-D

### 3G-SDI With Serial Data & Tally Over 1 Fiber

# OTR-301-D



#### 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
- One ST optical connection needed
- SMPTE 424M, 292M, 259M & ASI compliant
- Error free transmission of pathological test patterns
- Duplex RS-232/422/485 and tally on the same fiber
- Compact design

The OTR-301-D is a compact, cost effective fiber optic extender pair capable of extending HD video up to 3G-SDI with 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-D provides error free transmission with RP-198 pathological patterns. Along with SDI video, bi-directional RS-232/422/485 serial data and tally is sent on the same fiber. The units are built with a stand-alone compact enclosure making it the perfect solution for OB trucks, remote broadcast, mounting by remote security cameras or any other applications that might need a "throw down", wall mount or shelf mounted fiber link. The OTR-301-D has an extended temperature range making it a good solution for mounting in NEMA enclosures.

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#### Models

Model	Description
OTR-301-D	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 RS-232/422/485, One-way tally, 12 VDC@1.5A power supply included, Compact stand-alone enclosure

#### 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
Data Specifications	
Data Rate	DC to 115.2 Kbps
Data Type	RS-232, 422 or 485
Tally/Contact Closure	Normally Open Form 1 SPST (5V)
Connector Type	Terminal Block
Mechanical Specification	
Enclosure type	Stand-alone
Dimensions (L x W x H)	2.9" x 2.9" x 1"
Weight	7.4 oz
Mounting	Flange-mount
Power Specifications	
Power Supply	12 VDC@1.5A
Power Consumption	3 Watts (max)
Environmental Specifications	
Operating Temperature	-20 to +75 C
Relative Humidity	0 to 90%, non-condensing
Storage Temperature	-20 to +85 C

