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# OTR-3000



## Features

- 12G-SDI long distance extension
- Resolution support for 4K broadcast
- Data rate from 270 Mbps up to 12G-SDI
- SMPTE Small Form Pluggable fiber optic interface
- Up to 20Km on one SM fiber
- One LC optical connection needed
- SMPTE 2082-1, 2082-2, 424M, 292M, 259M compliant
- Error free transmission of pathological test patterns
- SDI loopout on transmitter for local monitoring
- Compact flange-mount design

The OTR-3000 is a compact, but powerful fiber optic extender pair capable of extending high resolution video up to 12G-SDI over fiber for 4K broadcast applications. Extend signals from 270 Mbps up to 12 Gbps over 20 Km on a single SM fiber. Meets SMPTE SDI standards maintaining error free transmission of SMPTE 424M, 292M, 259M, 2082-1, 2082-2 and ASI over the entire 20 Km distance. Additionally, the OTR-3000 provides error free transmission with RP-198 pathological patterns. The units are built with a solid stand-alone compact enclosure with mounting flanges, making it the perfect solution for OB trucks, remote broadcast or any other applications that might need a “throw down”, wall mount or shelf mounted fiber link.

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**Models**

Model	Description
OTR-3000	Fiber optic extender link (tx & rx), Resolution support for 4K broadcast transmission, Data rate from 270 Mbps up to 12 Gbps, Meets SMPTE 2082-1, 2082-2, 42M, 292M, 259M & DVB-ASI, 5 VDC@2A power supply included, Compact stand-alone enclosure

**Specifications**

Video Specifications	
SMPTE Compliance	2082-1, 2082-2, 424M, 292M & 259M
Data Rate	270 Mbps up to 12 Gbps
Resolution Support	Up to 4K2Kp60
Reclocking (auto)	270Mbps, 1.485, 2.97, 5.94, 12Gbps
Input/output Impedance	75 Ohm
Loop output	Tx: 1 reclocked output
Optical Specifications	
Distance	Up to 20 Km
Wavelength (Tx)	1260nm to 1360nm typical 1310nm
Optical Output Power (Tx)	-5 to +5 dBm
Wavelength (Rx)	1260 to 1620nm
Optical Input Power (Rx)	-2 dBm max -14 dBm @ 2.97 Gbps -10 dBm @ 6 to 11.88 Gbps
Fiber Type	SM
Fiber Connector	LC
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	5 VDC@2A
Power Consumption	3 Watts (max)
Environmental Specifications	
Operating Temperature	0 to 40 C
Relative Humidity	20 to 90%, non-condensing
Storage Temperature	-20 to +60 C

