

OSD8224T/OSD8224R 4-CHANNEL 3G HD/SDI TX/RX PAIR



APPLICATIONS

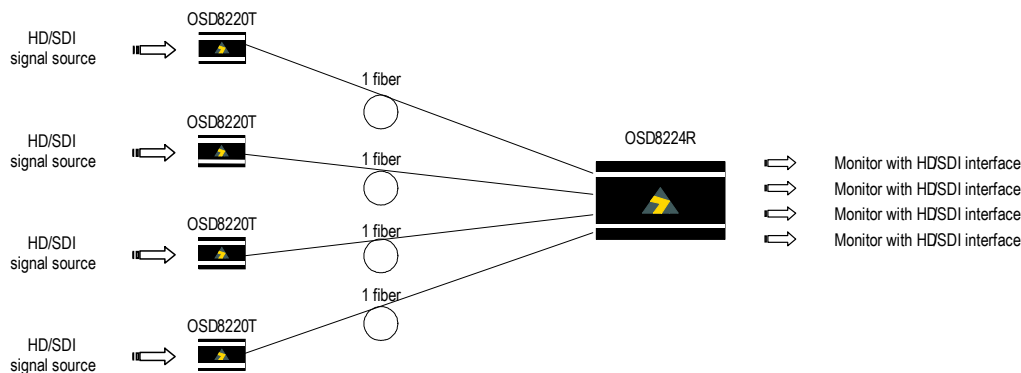
- ▲ Any digital broadcast application such as studio signal routing and temporary OB or studio links
- ▲ Remote camera links
- ▲ Campus digital video distribution
- ▲ Very high performance surveillance networks

FEATURES AND BENEFITS

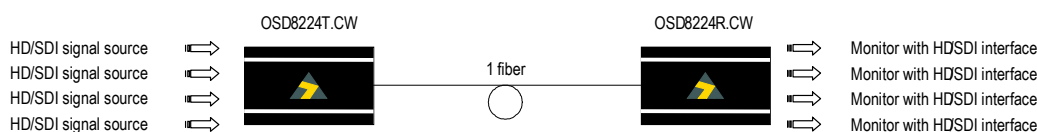
- ▲ Built in user bypassable automatic reclocking at 270Mbps, 1.485Gbps and 2.97Gbps with indication of data rate on each channel
- ▲ Operates from 19.4Mbps to 2.97Gbps in non-reclocked mode
- ▲ Compatible with SMPTE 310M, 292M, 259M, 297M and 372M and 424M
- ▲ Automatic equalization of up to 350m @ 270Mbps and 70m @ 2.97Gbps of Belden 1694A cable
- ▲ Compatible with OSD Network Management System
- ▲ Available in 1310nm, 1550nm and all eighteen CWDM wavelengths
- ▲ Designed for singlemode fiber.
- ▲ Available with built in CWDM multiplexer for 4-channel single fiber operation
- ▲ Capable of operation over more than 50km
- ▲ Immune to pathological signals
- ▲ Available as a single slot width card which plugs into OSD's standard 19" chassis or as a rugged module suitable for both permanent and temporary throwdown applications

TYPICAL APPLICATION DESIGN

4-Tx to 1-Rx



4-Channel on 1-Fiber



ORDERING INFORMATION

OSD8224T	4-Channel 3G HD/SDI Transmitter Module
OSD8224R	4-Channel 3G HD/SDI Receiver Module
Option C	Module version
Option WC4	4-Channel Operation on one Singlemode Fiber



SPECIFICATIONS

ELECTRICAL

Number of Channels	4
Input/Output Impedance	75Ω
Input/Output Level	800 mVpp nominal
Coax Equalization	350m @ 270Mbps 140m @ 1.485Gbps 70m @ 2.97Gbps
SDI Connectors	BNC female socket
Power Connector	4 way terminal block on module, DB9 on card

OPTICAL

Number of Fibers	4 for standard unit, 1 for CWDM unit
Fiber Type	Singlemode is standard.
Transmitter Wavelength	1310nm ±30nm (1550nm and all 18 CWDM wavelengths are optionally available). Standard 4-Channel CWDM module operates on 1510, 1530, 1550 and 1570nm)
Transmitter Coupled Power	-5 to 0dBm per wavelength (+2dBm is optional)
Receiver Operating Wavelength	1200 to 1600nm
Receiver Sensitivity	<-18dBm for 1 x 10 ⁻⁹ Bit Error Rate
Optical Link Budget	>13dB at 1310nm (>30km) >13dB at 1470 to 1610nm (>50km) >20dB at 1470 to 1610nm with optional +2dBm laser (>70km)
Receiver Saturation	>0dBm
Optical Connector(s)	LC standard for the 4-fiber version, FC (ST optional) for the 1-fiber CWDM unit

PHYSICAL

	OSD8224T Transmitter	OSD8224R Receiver
Dimensions of 4-Fiber Module (mm)	114W x 105D x 32H	114W x 105D x 32H
Weight of 4-Fiber Module	0.35kg	0.35kg
Dimensions of 1-Fiber Module (mm)	114W x 174D x 32H	114W x 174D x 32H
Weight of 1-Fiber Module	0.50kg	0.50kg
Dimensions of Card (mm)	25W x 208D x 100H	25W x 208D x 100H
Power Requirements	+5 to 20VDC @ 4VA	+5 to 20VDC @ 4VA
Indicators/Channel	Loss of electrical input signal Reclocker locked Operating speed Laser Fail	Loss of optical input signal Reclocker locked Operating speed
Controls/Channel	Reclocker Bypass Coax equalizer bypass	Reclocker bypass
Operating Temperature	-20 to +65°C	-20 to +65°C
Relative Humidity	0 to 95% non-condensing	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.30 Amp	0.30 Amp