

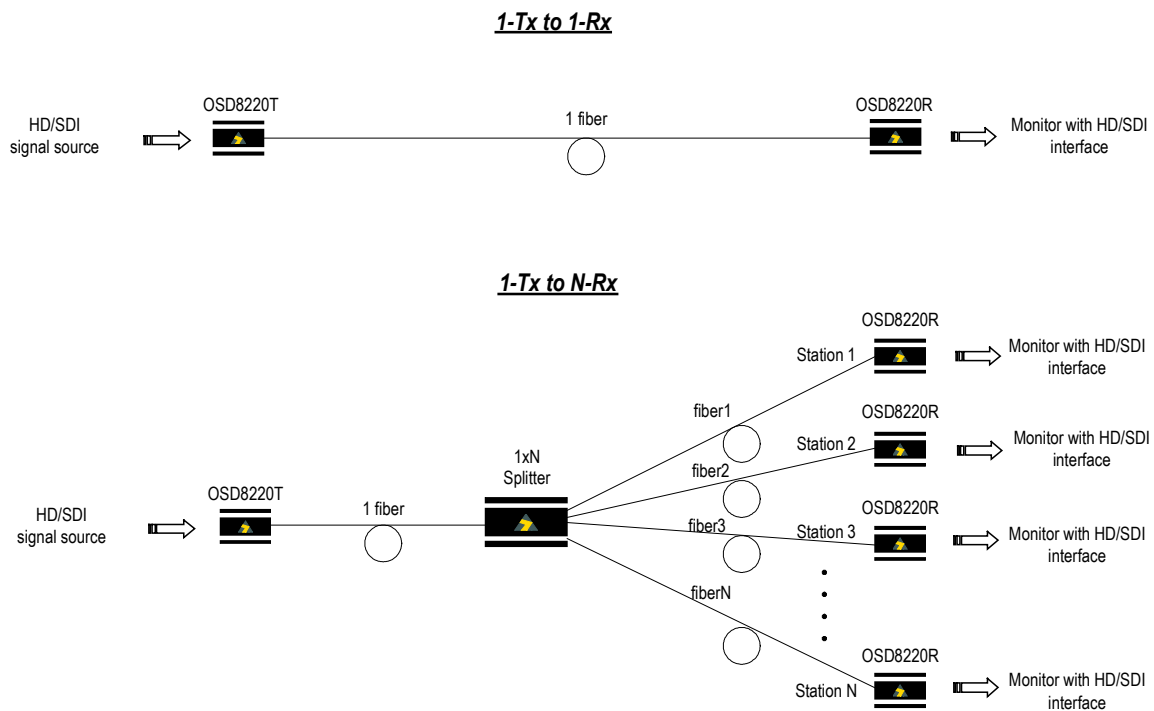
APPLICATIONS

- ▲ 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

- ▲ Available with built in user bypassable automatic reclocking at 270Mbps, 1.485Gbps and 2.97Gbps
- ▲ 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
- ▲ Available in 1310nm, 1550nm and all eighteen CWDM wavelengths
- ▲ Capable of operation over more than 50km
- ▲ Immune to pathological signals
- ▲ Extremely small and rugged unit is suitable for both permanent and temporary throwdown applications
- ▲ Uses Video SFP for optical communication (VSFP sold separately)

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

OSD8220T 3G HD/SDI Transmitter Module
 OSD8220R 3G HD/SDI Receiver Module



SPECIFICATIONS

ELECTRICAL

Input/Output Impedance	75Ω
Input/Output Level	800 mVpp nominal
Coax Equalization	350m @ 270Mbps 140m @ 1.485Gbps 70m @ 2.97Gbps
SDI Connector	BNC female socket
Power Connector	2-Pin Terminal Block

OPTICAL

Optical Interface	SMPTE 297-2006
Optical Port Connector	VSFP (Single fiber LC connector as standard)
Video SFP Options*	OSDSFP3GT1/30km- 3G HD/SDI SFP Plug-in Transmitter up to 30k (Plugs into OSD8220T) OSDSFP3GR1 – 3G HD/SDI SFP Plug-in Receiver (Plugs into OSD8220R)
Transmit Wavelength	1310nm ±30nm (1550nm and all 18 CWDM wavelengths are optionally available)
Transmit Optical Power	-5 to -0dBm into singlemode fiber (See VSFP datasheet for options)
Receiver Sensitivity	<-18dBm
Receiver Saturation	>0dBm
Standard SM Optical Link Budget	>13dB: >30km on singlemode fiber @ 1310nm

NOTE: Special configurations to cover longer distances also available. Contact OSD for a full listing of available options
Special care must also be taken to use the correct Video SFP; using an Ethernet SFP in this product will not work and may cause damage to the port.

PHYSICAL	OSD8220T Transmitter	OSD8220R Receiver
Power Requirements	+5 to 20VDC @ 2VA	+5 to 20VDC @ 2VA
Enclosure	Strong metal case	Strong metal case
Case Dimensions (mm)	40Wx25Hx55L	40Wx25Hx55L
Weight	50g	50g
Indicators	Loss of electrical signal Reclocker locked	Loss of optical signal Reclocker locked
Controls	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