



APPLICATIONS

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

▲ FEATURES AND BENEFITS

- ▲ Available with automatic reclocking at 270Mbps, 1.485Gbps, 2.97Gbps, 5.94Gbps and 11.88Gbps
- ▲ Operates at 125Mbps and 1.25Gbps in non-reclocked mode
- ▲ Compatible with SMPTE 310M, 292M, 259M, 297M, 372M, 424M, ST2081 and ST2082
- ▲ Automatic equalization of up to 350m @ 270Mbps and 15m @ 11.88Gbps of Belden 1694A cable
- ▲ Available in 1310nm, 1550nm and all eighteen CWDM wavelengths
- ▲ Capable of operation over more than 50km
- ▲ Immune to pathological signals
- ▲ Available as either an extremely small and rugged unit suitable for both permanent and temporary throwdown applications or as a card that plugs into the OSD350 or OSD370 3RU 19" rack mounting chassis
- ▲ Uses non-MSA format 12G Video SFP for optical interface (VSFP sold separately)

ORDERING INFORMATION

OSD8230T	12G HD/SDI Transmitter Module
OSD8230R	12G HD/SDI Receiver Module
Option /100	Card format version for use with OSD350 or OSD370 chassis



SPECIFICATIONS

ELECTRICAL

Input/Output Impedance	75Ω
Input/Output return loss	>15dB up to 3GHz
Input/Output Level	800 mVpp nominal
Coax Equalization	350m @ 270Mbps 140m @ 1.485Gbps 70m @ 2.97Gbps 35m @ 5.94Gbps 15m @ 11.88Gbps
SDI Connector	BNC female socket
Power Connector	2-Pin Terminal Block for module, DB9 for card

OPTICAL

Optical Interface	SMPTE 297-2006
Optical Port Connector	VSFP (Single fiber LC connector as standard)
Video SFP Options	OSDSFP12GT1/10km - 12G HD/SDI SFP Plug-in Transmitter up to 10km OSDSFP12GT1/20km - 12G HD/SDI SFP Plug-in Transmitter up to 20km OSDSFP12GT1/40km - 12G HD/SDI SFP Plug-in Transmitter up to 40km (Plugs into OSD8230T) OSDSFP12GR1 – 12G HD/SDI SFP Plug-in Receiver (Plugs into OSD8230R)
Transmit Wavelength	1310nm ±30nm (1550nm and all 18 CWDM wavelengths are optionally available)
Transmit Optical Power	-5 to +1dBm (OSDSFP12GT1/10km) -2 to +3dBm (OSDSFP12GT1/20km) +4 to +8dBm (OSDSFP12GT1/40km)
Receiver Sensitivity	<-13dBm
Receiver Saturation	>-2dBm
Standard SM Optical Link Budget	>8dB: >10km >11dB: >20km >17dB: >40km

NOTE: Configurations to cover longer distances also optionally 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

Dimensions of Module (mm)	40W x 25H x 55L
Weight of Module	50g
Dimensions of Card (mm)	25W x 208D x 100H
Weight of Card	200g
Power Requirements	+9 to 35VDC @ 3VA
Module Power Connector	2-pin power socket
Indicators	Loss of electrical signal (OSD8230T) Loss of optical signal (OSD8230R) Reclocker locked
Controls	Coax equalizer bypass (OSD8230T only)
Operating Temperature	-20 to +65°C
Relative Humidity	0 to 95% non-condensing

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