

**OSD330T/330R RGB/XGA
VIDEO TRANSMISSION SYSTEM**

APPLICATIONS

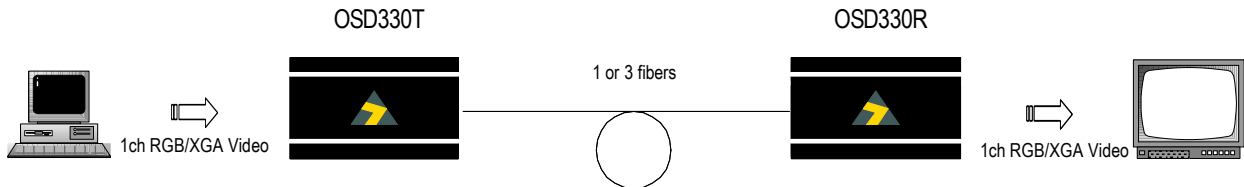
- ▲ Very high resolution RGB or XGA video signals with any standard sync configuration over three multimode or singlemode fibers
- ▲ Medical image transmission
- ▲ Multiple video trunks requiring extremely high resolution



FEATURES AND BENEFITS

- ▲ Bandwidth of 150MHz per colour
- ▲ Extends RGB/XGA transmission to at least 5km on multimode and 30km on singlemode fiber
- ▲ Operates on both multimode and singlemode fiber: just one system covers every situation
- ▲ Can use Sync-on-Green, composite sync or separate Horizontal+Vertical Sync
- ▲ AGC on all three colours ensures automatic colour balance and Plug-and-Play setup
- ▲ Supports display systems at up to 1600 X 1200 pixels at scan rates up to 128kHz
- ▲ Safe transmission through any environment
- ▲ Immune to electrical interference and provides complete end-to-end isolation

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

OSD330T	Fiber Optic Video Transmitter Card
OSD330R	Fiber Optic Video Receiver Card
Option C	Standalone Module



SPECIFICATIONS

ELECTRICAL

Number of Channels	One RGB, VGA or XGA
Video Input/Output Impedance	75Ω
Video Input/Output Levels	700mVpp nominal
Receiver AGC	Independent on all 3 colours
Connectors	BNC (5) High Density 15 pin D Type (1)
System Bandwidth	10Hz - 150MHz over 100 metres of multimode fiber 10Hz - 120MHz over 1km of multimode fiber 10Hz - 100MHz over 2km of multimode fiber 10Hz - 150MHz over 30km of singlemode fiber
Weighted Signal to Noise Ratio	>50dB at -20dBm peak received optical power

OPTICAL

Number of fibers	3
Transmitter wavelength	1310 ±40nm
Transmitter coupled power	-10 to -6dBm peak power
Receiver sensitivity	<-20dBm peak for 50dB weighted SNR
Receiver saturation	>-7dBm peak
Optical link budget	10dB (multimode or singlemode)
Optical connectors	SC standard, others optional (consult OSD)

PHYSICAL

Card

Power Requirements	+12V @ 500mA
Dimensions (mm)	50W x 100H x 208D
Weight	300g

Module

Power Requirements	+11 to 16VDC @ 500mA
Dimensions (mm)	215W x 210D x 56H
Weight	1.6kg

Indicators	OSD330T Transmitter	TX Signals Present Sync Signals Present Lasers OK
	OSD330R Receiver	RX Signals Present Sync Signals Present Optical Signals OK

Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing

OPTIONS

The OSD330 is available to operate on just one multimode or singlemode fiber and to incorporate multiple outputs in the OSD330T so that one transmitter can drive up to eight receivers. Please contact OSD for configuration details.
