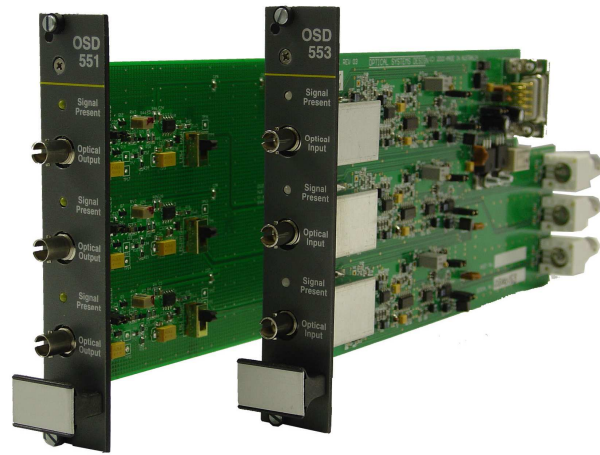


APPLICATIONS

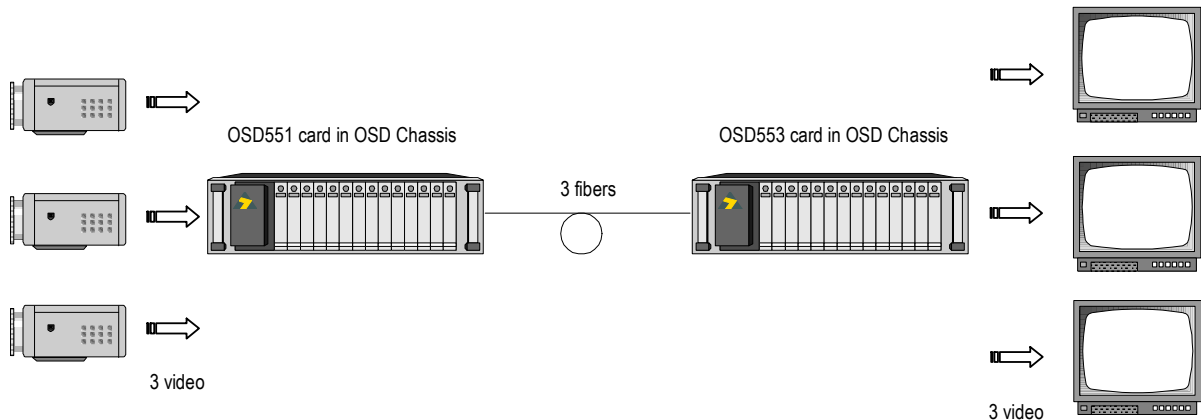
- ▲ Very high performance surveillance systems where high resolution or long transmission distances are required
- ▲ Industrial process monitoring
- ▲ Medical image transmission
- ▲ Multiple video trunks
- ▲ Large CCTV systems with many tielines or remote cameras



FEATURES AND BENEFITS

- ▲ 3 video transmitters/card (OSD551)
- ▲ 3 video receivers/card (OSD553)
- ▲ Bandwidth of 10MHz
- ▲ Extends wideband video transmission to over 4km
- ▲ Higher quality video than with coax or twisted pair
- ▲ Immune to electrical interference
- ▲ Complete end-to-end isolation
- ▲ Safe transmission in hazardous environments
- ▲ More secure than coaxial cable
- ▲ Provides many channels of transmission and/or reception in a compact 19" rack mounting configuration
- ▲ Compatible with most other OSD300 series video transmission products

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

OSD551	Fiber Optic Video Transmitter Card
OSD553	Fiber Optic Video Receiver Card
Option L	1310nm singlemode operation



SPECIFICATIONS

ELECTRICAL

Number of Channels	3
Input/Output Impedance	75Ω
Input/Output Level	1 Vpp nominal
Receiver AGC Technique	Sync tips
Connector	BNC
Bandwidth	10Hz - 10MHz + 1, -3dB
Weighted Signal to Noise Ratio	>50dB at -27dBm peak received optical power

OPTICAL

Number of Fibers	3
Transmitter Wavelength	850nm for OSD551, 1310nm for OSD551L
Transmitter Coupled Power	-13 to -11dBm peak power into multimode fiber (OSD551) -16 to -13dBm peak power into singlemode fiber (OSD551L only)
Transmitter Power Adjustment	5dB nominal, user selectable for each channel
Receiver Operating Wavelength	800 to 900nm (OSD553) 1200 to 1600nm (OSD553L)
Receiver Sensitivity	<-27dBm peak for 50dB SNR
Optical Link Budget	>14dB at 850nm (>4km of multimode fiber) >11dB at 1310nm (>25km of singlemode fiber)
Receiver Saturation	>-17dBm peak
Optical Connectors	ST standard, others optional (consult factory)

PHYSICAL

	OSD551 Video Transmitter	OSD553 Video Receiver
Power Requirements	+12V @ 200mA	+12V @ 200mA
Dimensions (mm)	25W x 100H x 208D	25W x 100H x 208D
Weight	200g	200g
Indicator	TX Signal Present (3)	RX Signal Present (3)
Operating Temperature	-20 to+75°C	
Relative Humidity	0 to 95% non-condensing	
Chassis Current Consumption (CCC)	0.20 Amp	0.20 Amp