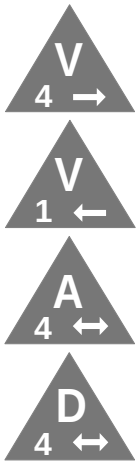
OSD391/OSD393 4 CHANNEL VIDEO/AUDIO/DATA MULTIPLEXER



APPLICATIONS

- CCTV networks
- Video conferencing
- Transportation networks
- Industrial monitoring systems
- Distance learning

FEATURES AND BENEFITS

- Fiber optic transmission of one to four video signals on one fiber
- Optional transmission of four audio and data channels which may be one way or full duplex
- Optional reverse channel path for video synchronisation and for pan, tilt and zoom control of remote cameras
- Range of up to 50km. 100km is possible with optional 1550nm operation
- Optional duplex operation over one fiber
- Operates on either singlemode or multimode fiber
- Video bandwidth in excess of 6MHz
- Immunity to electrical interference, low radiation with complete end-to-end isolation

TYPICAL APPLICATION DESIGN

ORDERING INFORMATION

Contact OSD for a full listing of available options

OSD391	Transmitter Module	Option A	Forward path audio
OSD393	Receiver Module	Option U	1RU case
Option a	Reverse path audio	Option D	Forward path data
Option d	Reverse path data	Option W	Single fiber operation
Option NV	N video signals (N = 1,2,3 or4)	Option v	Reverse path video
Option C	Standalone case	Option -48	-48V power

OPTICAL SYSTEMS DESIGN PTY LTD 7/1 Vuko Pl. Warriewood N.S.W. Australia 2102
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SPECIFICATIONS

CHANNEL AVAILABILITY

(specify at time of order)	**Forward Path**	**Reverse Path**
Number of Video Channels	One to four	zero, one or two
Number of Audio Channels	zero or four	zero or four
Number of Data Channels	zero or four	zero or four

ELECTRICAL	**Video**	**Audio**
Input/Output Impedance	75Ω	5KΩ/600Ω
Input/Output Level	1.0Vpp nominal	500mVrms
Bandwidth	10Hz to 6.5MHz ± 1dB	30Hz to 15kHz + 1, -3dB
Signal to Noise Ratio *	>50dB (weighted)	>55dB (A weighted)
Data Interface	RS232 or RS422	
Data Rate**	DC to 20kbps	
Data Bit Error Rate *	$<1x10^{-9}$	
Video Connector	BNC	
Audio/Data Connector	Female 44-pin D connector	

OPTICAL	**OSD391**	**OSD393**
Transmitter Wavelength	1310nm	1310nm
Transmitter Coupled Power	-10 to -7dBm (OSD391LP) -5 to -2dBm (OSD391) 0 to +3dBm (OSD391H)	 -10 to -7dBm (standard) -5 to -2dBm (optional)
Receiver Sensitivity	<-27dBm	<-22dBm
Optical Connectors	ST standard, FC, SC optional	

Note: Many combinations of laser types and levels and receiver types and sensitivities are possible. Contact OSD for details

PHYSICAL

Power Requirements	10 to 20VDC @ 9VA for card 90 to 280 VAC @ 10VA for module or 1RU version
Dimensions (mm)	25W x 208D x 100H card 215W x 210D x 56H (Standalone case) 483W x 210D x 44H 1RU case
Weight	1.6kg (Standalone case version) 2.7kg (1RU version)
Operating Temperature	0 to +60℃
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.80 Amp

*Measured at -27dBm (OSD391) and -22dBm (OSD393)
**100kbps is available in conjunction with digital audio option. Contact OSD for details