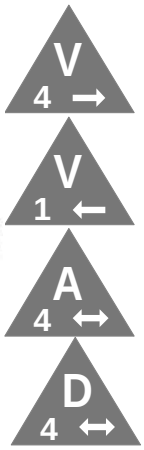
OSD890 DIGITAL 4 CHANNEL VIDEO/ AUDIO/DATA MULTIPLEXER

APPLICATIONS

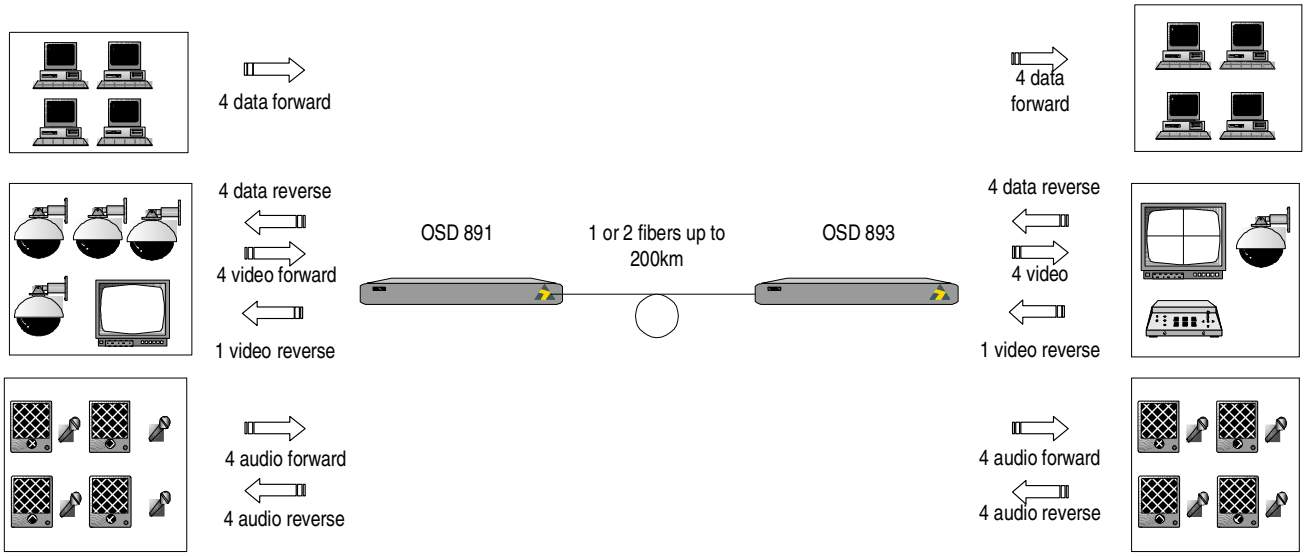
- CCTV networks
- Video conferencing
- Transportation networks
- Industrial monitoring systems
- Distance learning



FEATURES AND BENEFITS

- Uncompressed 10 bit video, 24 bit audio encoding, giving studio quality transmission
- Fiber optic transmission of one to four video signals on one fiber
- Optional transmission of four audio and/or four high speed data channels which may be one way or full duplex. Alternately, the user may transmit eight audio or eight data signals, again either one way or full duplex
- Optional reverse video channel for camera synchronisation or for video conferencing
- Range of up to 200km is possible with optional 1550nm operation
- Optional duplex operation over one fiber
- Operates on either singlemode or multimode fiber
- Video bandwidth of 10MHz, SNR >67dB
- Audio bandwidth of 21kHz, SNR >100dB
- Video inputs have 3dB overload capability and can be equalised for up to 300m of coaxial cable

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

Contact OSD for a full listing of available options

OSD891	Transmitter Module
OSD893	Receiver Module
Option NV	N video signals (N = 1,2,3 or4)
Option A	Forward path audio
Option a	Reverse path audio
Option v	Reverse path video
Option D	Forward path data
Option d	Reverse path data
Option W	Single fiber operation

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	1 to 4	0, 1 or 2
Number of Audio Channels*	0 or 4	0 or 4
Number of Data Channels*	0 or 4	0 or 4

ELECTRICAL	**Video**	**Audio**
Input/Output Impedance	75Ωcomposite	10kΩ/200Ωbalanced/unbalanced
Input/Output Level	1.0Vpp nominal	0dBu nominal, 20dBu maximum
Bandwidth	10Hz to 10MHz ±1dB	10Hz to 21kHz ±.5dB
Signal to Noise Ratio	>67dB (weighted)	>100dB (A weighted at max level)
Linearity	<.5% DG <.5°DP	<0.02% total harmonic distortion
Data Interface	RS232 or RS422 with RS485 also available on Channel 1	
Data Rate	DC to 400kbps	
Data Bit Error Rate	$<1x10^{-9}$	
Video Connector	BNC	
Audio/Data Connector	Female 44-pin D connector	

OPTICAL

Transmitter Wavelength	1310nm or 1550nm
Transmitter Coupled Power	several options are available from –7dBm to +6dBm
Receiver Sensitivity (either direction)	<-24dBm (PIN) <-34dBm (APD)
Link Budget	From 17dB to 38dB at 1310nm or 1550nm
Optical Connectors	ST standard, FC and SC are optional

Note:
1. Many combinations of laser types and levels and receiver types and sensitivities are possible. Contact OSD for details.
2. It is also possible to configure the unit as 8 audio, 0 data or 0 audio, 8 data.

PHYSICAL

Power Requirements	9 to 20VDC @ 15VA max 90 to 265 VAC @ 20VA
Dimensions (mm)	100W x 208D x 25H card, powered from OSD370 chassis 215W x 210D x 56H modem case 483W x 210D x 44H 1RU case
Weight	0.2kg (card), 1.6kg (modem case), 2.9kg (1RU case)
Operating Temperature	-20 to 75 C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.9 Amp for 4-channel video only system Add 0.30 Amp for additional audio and/or data channels