

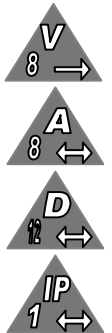
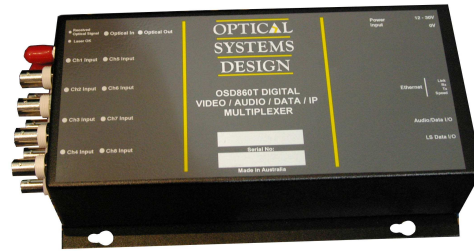
**OSD860 DIGITAL 4/8 CHANNEL
VIDEO/AUDIO/DATA/ETHERNET MULTIPLEXER**

APPLICATIONS

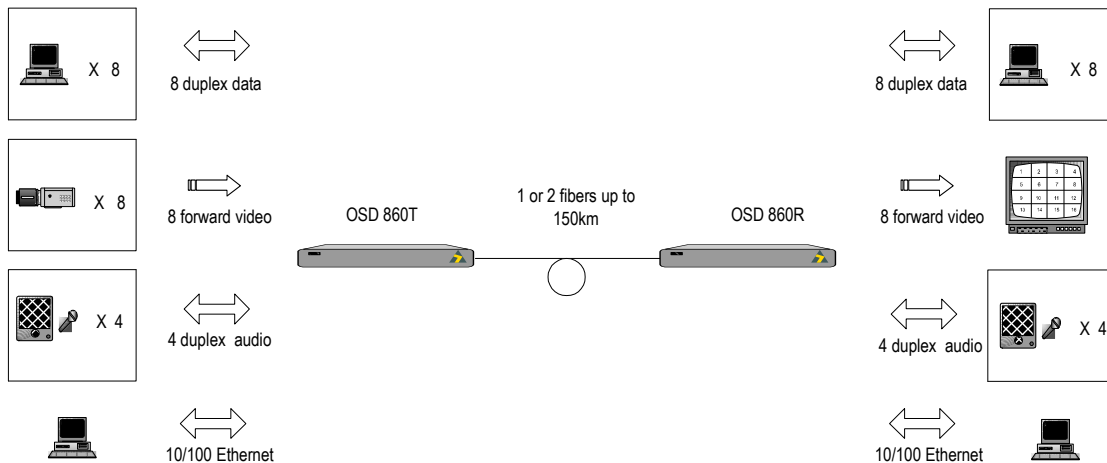
- ▲ CCTV networks
- ▲ Video conferencing
- ▲ Transportation networks
- ▲ Industrial monitoring systems
- ▲ Distance learning

FEATURES AND BENEFITS

- ▲ Uncompressed 9 bit video, 24 bit audio encoding, giving professional quality transmission
- ▲ Fiber optic transmission of four or eight video signals on one fiber with four RS232 and RS422 data signals (two of each) which may be one way with the video or, optionally, full duplex
- ▲ Optional transmission of four audio and/or four additional high speed data channels which may be one way or full duplex. Alternatively, the user may transmit eight audio or eight extra data signals, again either one way or full duplex
- ▲ Range of up to 120km is possible with optional 1550nm operation
- ▲ Optional duplex operation over one fiber
- ▲ Optional 10/100 Base-T Ethernet bridging through the link
- ▲ Operates on either singlemode or multimode fiber
- ▲ Video bandwidth of 6 MHz, SNR >63dB
- ▲ Audio bandwidth of 15kHz, SNR >100dB
- ▲ Video inputs have 3dB overload capability



TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

Contact OSD for a full listing of available options

- OSD860T Transmitter Module
- OSD860R Receiver Module
- Option NV N video signals (N = 2, 4 or 8)
- Option A Forward path audio
- Option a Reverse path audio

- Option D Forward path data
- Option d Reverse path data
- Option W Single fiber operation
- Option E 10/100BaseT Ethernet Interface
- Option NMS Network Management System



SPECIFICATIONS

CHANNEL AVAILABILITY

(specify at time of order)

	<u>Forward Path</u>	<u>Reverse Path</u>
Number of video channels	2, 4 or 8	0
Number of data channels	4	0 or 4
Number of optional audio channels *	0, 4 or 8	0, 4 or 8
Number of optional data channels *	0, 4 or 8	0, 4 or 8
Number of optional Ethernet interface	0 or 1	0 or 1

ELECTRICAL

	<u>Video</u>	<u>Audio</u>
Input/Output Impedance	75Ω	10KΩ/200Ω balanced/unbalanced
Input/Output Level	1.0Vpp nominal	0dBu nominal, 15dBu maximum
Bandwidth (±0.5dB)	10Hz to 6MHz	10Hz to 15kHz
Signal to Noise Ratio	>63dB (weighted)	>100dB (A weighted at max level)
Linearity	<.7% DG <.7°DP	<0.05% total harmonic distortion
Standard Data Interface	2 x RS232 and 2 x RS422	
Standard Data Rate	DC to 150kbps	
Optional Data Interface	RS232 or RS422 with RS485 also available on Channel 1	
Optional Data Rate	DC to 400kbps	
Optional Ethernet Interface	10/100BaseT via RJ45 connector with system rate of 3.5Mbps	
Data Bit Error Rate	<1x10 ⁻⁹	
Video Connectors	BNC	
Standard Data Connector	Female 15 pin D connector	
Optional Audio/Data Connector	Female 44 pin high density D connector	

OPTICAL

Transmitter wavelength	1310nm or 1550nm (including CWDM devices from 1470 to 1610nm)
Transmitter coupled power	Several options are available from -7dBm to +4dBm
Receiver sensitivity	<-22dBm (PIN) <-29dBm (APD)
Reverse Path Sensitivity	<-38dBm
Link budget	From 15dB to 33dB at 1310nm or 1550nm
Optical Connectors	ST standard and FC are optional

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

*It is also possible to configure the unit as 8 audio, 0 data or 0 audio, 8 data.

PHYSICAL

Power Requirements	10 to 18VDC @ 12VA (modem case) 90 to 265 VAC @ 20VA, -48VDC power is optional (2RU enclosure)
Dimensions (mm)	100W x 208D x 50H card 105W x 210D x 55H modem case 483W x 210D x 88H 2RU enclosure
Weight	0.2kg (card), 1.0kg (modem case), 3.1kg (2RU enclosure)
Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption	0.50 Amp for 4-channel video version 0.70 Amp for 8-channel video version Add 0.30 Amp for additional audio, data and/or Ethernet channels

Doc ID: 10286007