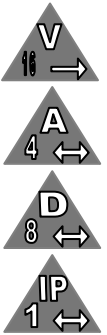


**OSD860 DIGITAL 12/16 CHANNEL
VIDEO/AUDIO/DATA/ETHERNET MULTIPLEXER**

APPLICATIONS

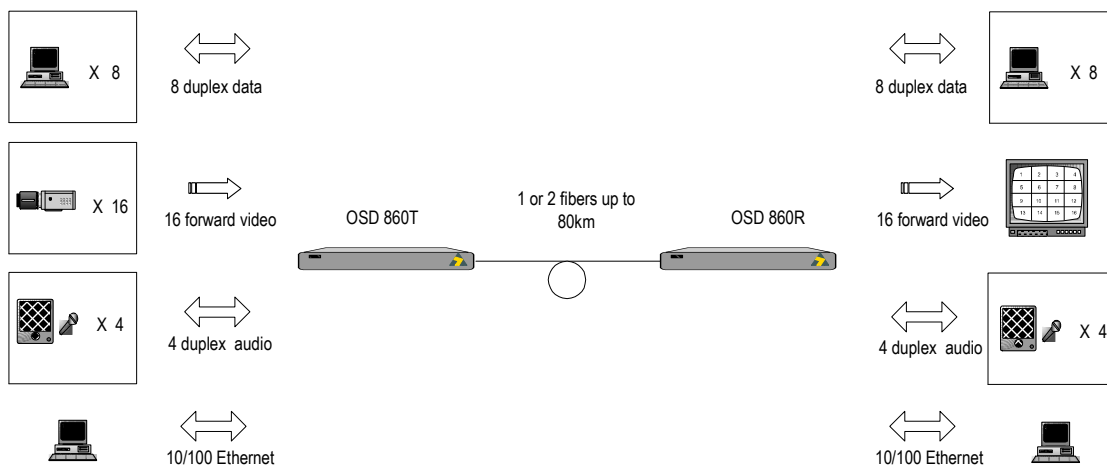
- ▲ CCTV networks
- ▲ Video conferencing
- ▲ Transportation networks
- ▲ Industrial monitoring systems
- ▲ Distance learning



FEATURES AND BENEFITS

- ▲ Uncompressed 9 bit video, 24 bit audio encoding, giving professional quality transmission
- ▲ Fiber optic transmission of sixteen 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 80km is possible
- ▲ Optional duplex operation over one fiber
- ▲ Optional 10/100 BaseT Ethernet bridging through the link
- ▲ Operates on either singlemode fiber
- ▲ Video bandwidth of 6 MHz, SNR >63dB
- ▲ Audio bandwidth of 15 kHz, SNR >100dB
- ▲ Video inputs have 3dB overload capability

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

Contact OSD for a full listing of available options

OSD860TU	Transmitter Module	Option D	Forward path data
OSD860RU	Receiver Module	Option d	Reverse path data
Option NV	N video signals (N = 12 or 16)	Option E	10/100BaseT Ethernet Interface
Option A	Forward path audio	Option NMS	Network Management System
Option a	Reverse path audio		



SPECIFICATIONS

CHANNEL AVAILABILITY

(specify at time of order)

	<u>Forward Path</u>	<u>Reverse Path</u>
Number of video channels	12 or 16	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 composite	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	10/100Base T 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/1550nm
Transmitter coupled power	Several options are available from -7dBm to +4dBm
Receiver sensitivity	<-21dBm (PIN) <-28dBm (APD)
Reverse Path Sensitivity	<-37dBm
Number of fibers	1 for oneway only operation 2 standard for duplex data/audio/Ethernet 1 optional for duplex data/audio/Ethernet (contact OSD)
Link budget	From 14dB to 32dB at 1310nm/1550nm
Optical Connectors	ST standard, FC and SC 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	90 to 265 VAC @ 20VA, -48VDC power is optional
Dimensions (mm)	483W x 210D x 88H 2RU enclosure
Weight	3.1kg (2RU enclosure)
Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing