

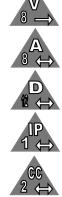
# OSD860S REDUNDANT LINK DIGITAL 4/8 CHANNEL VIDEO/AUDIO/DATA/ETHERNET MULTIPLEXER

## **APPLICATIONS**

- Ultra high reliability CCTV networks
- Video conferencing
- Transportation networks
- Industrial monitoring systems





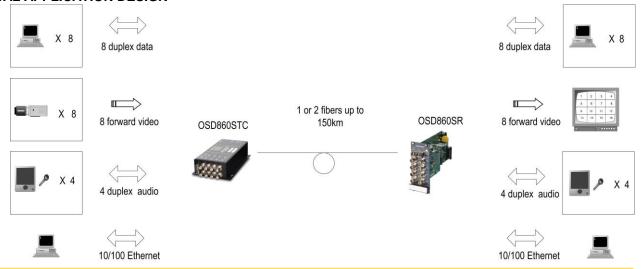


## **FEATURES AND BENEFITS**

- 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 160km is possible with optional 1550nm operation and high sensitivity optical receiver

- Available with dual SFP transceivers for redundant optical link operation
- Optional duplex operation over one fiber
- ▲ Optional 10/100 Base-T Ethernet bridging through the link
- ▲ Optional duplex contact closure channels
- Operates over singlemode fiber. Very short distance operation over multimode fiber is possible: contact OSD for details
- 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

OSD860ST Transmitter Module Forward path data Option D OSD860SR Receiver Module Option d Reverse path data Option NV N video signals (N = 2, 4 or 8)Option W Single fiber operation Option A Forward path audio Option E 10/100BaseT Ethernet Interface Reverse path audio Network Management System Option NMS Option a Option Cc Duplex contact closure



# **SPECIFICATIONS**

## **CHANNEL AVAILABILITY**

(specify at time of order)	Forward Path	Reverse Path
Number of video channels	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 high speed data channels *	0, 4 or 8	0, 4 or 8
Number of optional Ethernet interface	0 or 1	0 or 1

#### **ELECTRICAL**

Video

**Audio** 

Standard Data Interface 2 x RS232 and 2 x RS422

Standard Data Rate DC to 150kbps

Optional High Speed (HS) Data Interface RS232 or RS422 with RS485 also available on Channel 1 Optional High Speed (HS) Data Rate DC to 400kbps

Optional Ethernet Interface 10/100BaseT via RJ45 connector with system rate of 3.5Mbps

<1x10<sup>-9</sup> Data Bit Error Rate

Optional Contact Closure Interface One or two which replace one RS442 and one RS232 data channel

Video Connectors

Standard Data Connector Female 15 pin D connector

Female 44 pin high density D connector Optional Audio/Data Connector

## **OPTICAL**

0. 110/12	
Transmitter wavelength Transmitter coupled power	1310nm or 1550nm (including CWDM devices from 1470 to 1610nm) Several options are available from –7dBm to +4dBm
Receiver sensitivity	<-22dBm (PIN) <-34dBm (APD)
Reverse Path Sensitivity	<-24dBm
Link budget	From 17dB to 36dB at 1310nm or 1550nm, depending on optical devices
Optical Specifications and Connectors	Refer to OSD860 SFP datasheet #102860SFP04

Notes: Many combinations of laser types and levels and receiver types and sensitivities are possible. Contact OSD for details. The OSD860S reverse path is not compatible with the OSD860 reverse path. The OSD860S is easily distinguishable because it employs one or two removeable SFP optical modules whereas the OSD860 has fixed optical connector(s)

## **PHYSICAL**

THOOKE	
Power Requirements	10 to 30VDC @ 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

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<sup>\*</sup>It is possible to configure the unit as 8 audio+0 HS data, 4 audio+4 HS data or 0 audio+8 HS data.