

OSD8600S DIGITAL 4 CHANNEL VIDEO/DATA/ETHERNET MULTIPLEXER

APPLICATIONS

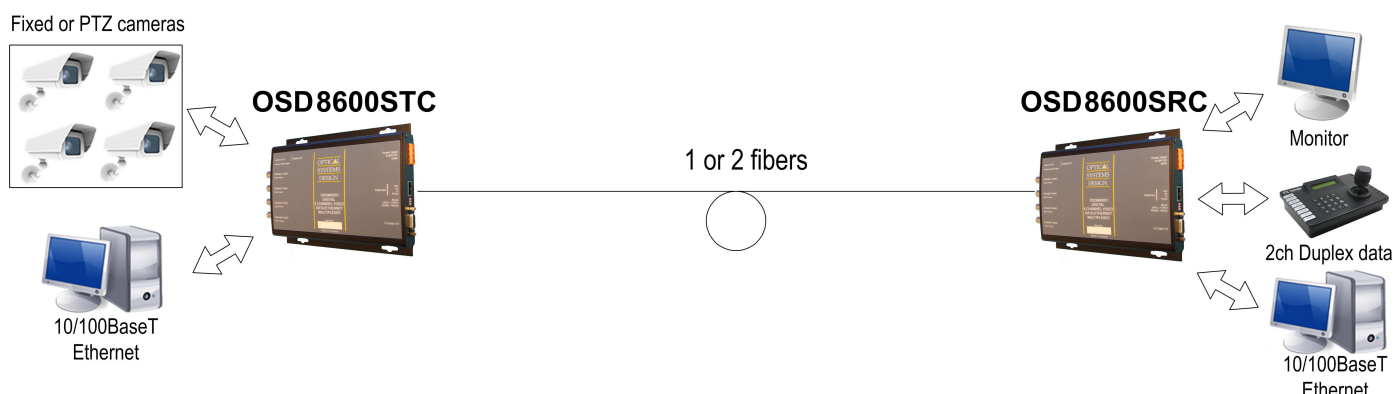
- ▲ CCTV networks
- ▲ Transportation networks
- ▲ Industrial monitoring systems



FEATURES AND BENEFITS

- ▲ Uncompressed 9 bit video encoding, giving professional quality transmission
- ▲ Fiber optic transmission of four video signals on one fiber with one RS232, one RS422/RS485 data signals and one contact closure channel all of which may be one way with the video or, optionally, full duplex
- ▲ Optional 10/100 Base-T Ethernet bridging through the link
- ▲ Duplex communication utilising 1000Base-X SFP transceivers that can be selected according to specific length or fiber requirements without changing the whole unit.
- ▲ Standard unit operates on singlemode fiber while multimode version is optionally available
- ▲ Video bandwidth of 6.5MHz, SNR >63dB
- ▲ SFP module(s) sold separately

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

Contact OSD for a full listing of available options

OSD8600ST	Transmitter Card
OSD8600SR	Receiver Card
Option C	Module version
Option NV	N Video Signals (N=2 or 4)
Option 2Dd	2 Duplex Data and 1 Duplex Contact
Option E	10/100BaseT Ethernet Interface
Option N	Network Management System Interface

SFP Part Numbers	
OSDSFP1000Lx	2-fiber 1310nm SFP Plugin Module with LC connectors for up to 20km
OSDSFP1000WLxA	Single fiber SFP Plugin Module with an SC connector for up to 20km (TX @1310nm, Rx@1550nm)
OSDSFP1000WLxB	Single fiber SFP Plugin Module with an SC connector for up to 20km (TX @ 1550nm, Rx @ 1310nm)



SPECIFICATIONS

CHANNEL AVAILABILITY

(specify at time of order)

	<u>Forward Path</u>	<u>Reverse Path</u>
Number of video channels	4	0
Number of data channels	2	0 or 2
Number of contact closure channels	1	0 or 1
Number of optional Ethernet interface	0 or 1	0 or 1

ELECTRICAL

Input/Output Impedance	<u>Video</u> 75Ω
Input/Output Level	1.0Vpp nominal
Bandwidth	10Hz to 6.5MHz
Signal to Noise Ratio	>63dB (weighted)
Linearity	<0.7% DG <0.7° DP
Standard Data Interface	1 x RS232, 1 x RS422/RS485 and 1 x contact closure
Standard Data Rate	DC to 400kbps on both data channels DC to >100bps on relay channel
Optional Ethernet Interface	10/100BaseT via RJ45 connector with system rate of 10Mbps
Data Bit Error Rate	<1x10 ⁻⁹
Video Connectors	BNC
Standard Data Connector	Female 9pin D connector

OPTICAL

Optical Port	SFP
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheets #10210000X (1000Mbps) or contact OSD
Optical Connectors	2-fiber= LC, 1-fiber = SC

PHYSICAL

Power Requirements	9 to 35VDC or 22 to 28VAC @ 5VA
Dimensions (mm)	100W x 208D x 25H card 114W x 174D x 32H modem case
Weight	0.2kg (card), 0.7kg (modem case)
Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.40 Amp