

### OSD8600S DIGITAL 4 CHANNEL VIDEO/DATA/ETHERNET MULTIPLEXER

#### APPLICATIONS

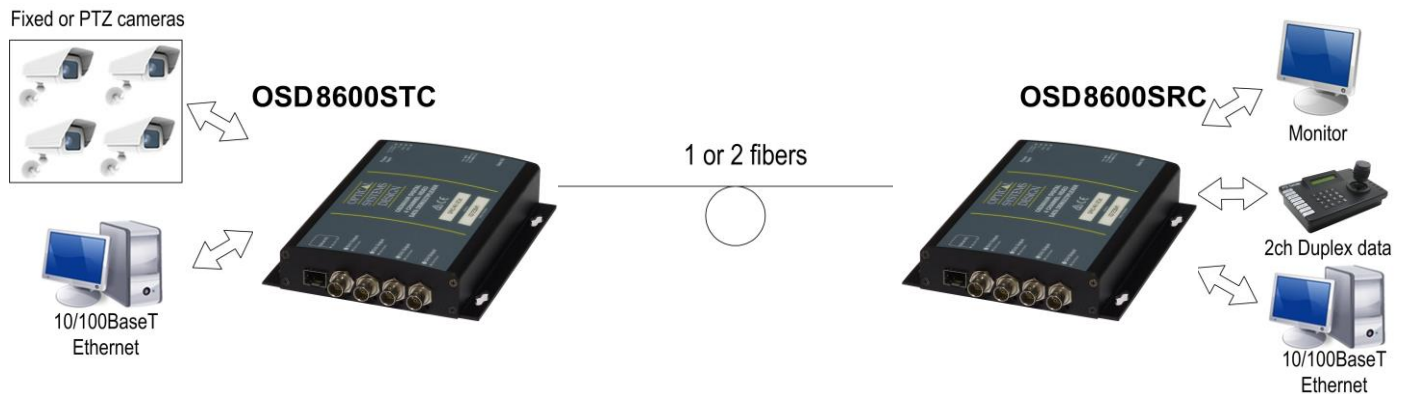
- ▲ CCTV networks
- ▲ Transportation networks
- ▲ Industrial monitoring systems



#### 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
- ▲ Optional 10/100 Base-T Ethernet bridging through the link
- ▲ Video bandwidth of 6.5MHz, SNR >63dB
- ▲ Communication utilising standard 1000Base-X SFP transceivers that can be selected according to specific length or fiber requirements without changing the whole unit.
- ▲ 2-fiber 1310nm or 1-fiber 1310nm/1550nm SFPs available for multimode or singlemode fiber
- ▲ 2-fiber 850nm SFP available for OM2, OM3 and OM4 multimode fiber
- ▲ SFP module(s) sold separately

#### TYPICAL APPLICATION DESIGN



#### ORDERING INFORMATION

Contact OSD for a full listing of available options

OSD8600ST/4V.2Dd	4 Channel Video Transmitter Card with 2 Duplex Data and 1 Duplex Contact Closure Channel
OSD8600SR/4V.2Dd	4 Channel Video Receiver Card with 2 Duplex Data and 1 Duplex Contact Closure Channel
Option C	Module version
Option E	10/100BaseT Ethernet 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)
OSDSFP1000Sx	1000Base-Sx 850nm SFP plugin module for 2 multimode fibers, supports up to 500m on OM2 and 860m on OM3



# SPECIFICATIONS

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## 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	2
Number of contact closure channels	1	1
Number of optional Ethernet interface	0 or 1	0 or 1 (Specify at time or order)

## ELECTRICAL

	<u>Video</u>
Input/Output Impedance	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
Data Interface	1 x RS232, 1 x RS422/RS485 and 1 x contact closure
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 <sup>-9</sup>
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 (for full-duplex operation) 1-fiber= LC (for one-way operation)

## 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