

### APPLICATIONS

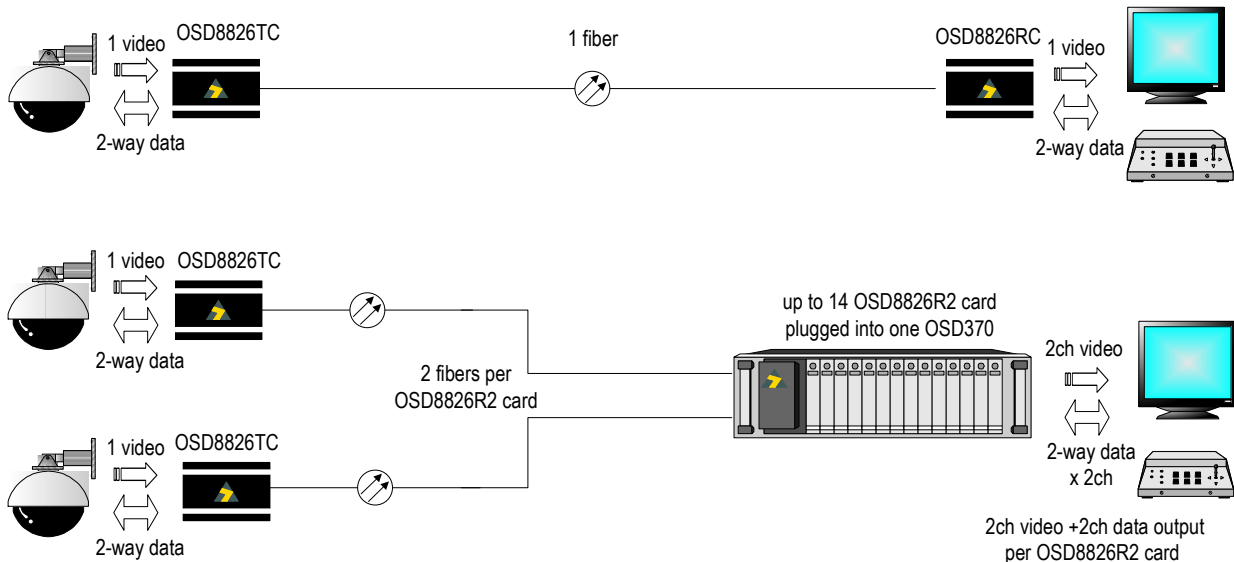
- ▲ High quality CCTV networks requiring full duplex or reverse data transmission between cameras and their control centre
- ▲ Transportation communications systems
- ▲ Safe city projects

### FEATURES AND BENEFITS

- ▲ One way optic transmission of PAL, NTSC or SECAM video plus duplex transmission of one data channel and forward transmission of a contact closure.
- ▲ Broadcast quality 10 bit video maintained over all link lengths
- ▲ Video bandwidth of 6MHz
- ▲ Single fiber operation
- ▲ Receiver available either as a single channel card (OSD8826R) or module (OSD8826RC) or as a dual channel card (OSD8826R2).
- ▲ Extremely cost effective
- ▲ Remote control of Pan, Tilt and Zoom for video surveillance.
- ▲ Operating range of at least 5km on multimode and 40km on singlemode fiber, with longer distances possible using optional optical devices.
- ▲ Standard operation using multimode or singlemode fiber; no need to specify fiber type.



### TYPICAL APPLICATION DESIGN



### ORDERING INFORMATION

OSD8826T	Video transmitter card with 1 duplex data channel
OSD8826R	Video receiver card with 1 duplex data channel
OSD8826R2	2-channel version of OSD8826R
Option C	Module version

# SPECIFICATIONS

## ELECTRICAL

Video Input/Output Impedance	75Ω
Video Input/Output Level	1Vpp nominal
Video Connector	BNC
Video Bandwidth	5Hz to 6MHz
Video Distortion	<1% DG, <1° DP
Weighted Video Signal to Noise Ratio	>63dB (at all receive levels over full dynamic range)
Data Interface	TTL, RS232, RS422 and RS485. 31kHz Manchester or Biphase possible in either direction
Data Rate	DC to >1.0Mbps
Contact transmission	Buffered input at OSD8826T, MOSFET output at OSD8826R
Data Connector	8-way Cage Clamp Terminal Block

## OPTICAL

Number of fibers required	One only
OSD8826T Transmitter Wavelength	1310nm
OSD8826T Transmitter Coupled Power	-14 to -4dBm into singlemode fiber -11 to -1dBm into multimode fiber
OSD8826R Transmitter Wavelength	1550nm
OSD8826R Transmitter Coupled Power	-15 to -4dBm into singlemode fiber -12 to -1dBm into multimode fiber
OSD8826R Receiver Sensitivity	<-33dBm
OSD8826R Receiver Saturation	>-3dBm
OSD8826T Sensitivity	<-36dBm (singlemode fiber)
OSD8826T Receiver Saturation	>-3dBm
Optical Link Budget and Distances	>22dB: >5km on multimode fiber @ 1310nm (fiber bandwidth limited) >18dB: >40km on singlemode fiber @ 1310nm (fiber loss limited) >30dB: >80km on singlemode fiber @1310nm for an OSD8826 link with high power devices (contact OSD for details)
Optical Connectors	ST is standard, SC and FC are optional

## PHYSICAL

	<b>OSD8826T</b>	<b>OSD8826R</b>
Dimensions of Module (mm)	60W x 94D x 26H	
Weight of Module	200g	
Dimensions of Card (mm)	25W x 208D x 100H	
Weight of Card	200g (250g for OSD8826R2)	
Power Requirements	+10 to 40VDC or 22 to 28VAC @ 3VA	
Power Connector	2 way terminal block with spring clamps	
Operating Temperature	-40 to +75°C	
Relative Humidity	0 to 95% non-condensing	
Indicators	Tx Video Present Link OK	Rx Video Present (Two sets for OSD8826R2) Link OK (Two sets for OSD8826R2)
Chassis Current Consumption (CCC)	0.20 Amp	0.20 Amp (0.40 Amp for OSD8826R2)

## OSD8826PP Power Adapter

Mains input	90 to 264VAC ±15%, moulded plug
DC output	+12VDC nominal, 400mA max, One 2-pin power plug on flying lead
Dimensions (mm)	65D x 45W x 48H