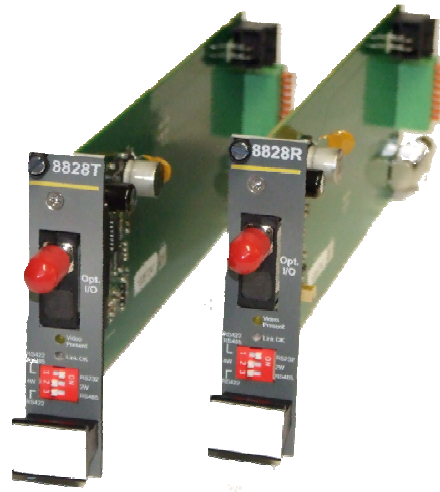


APPLICATIONS

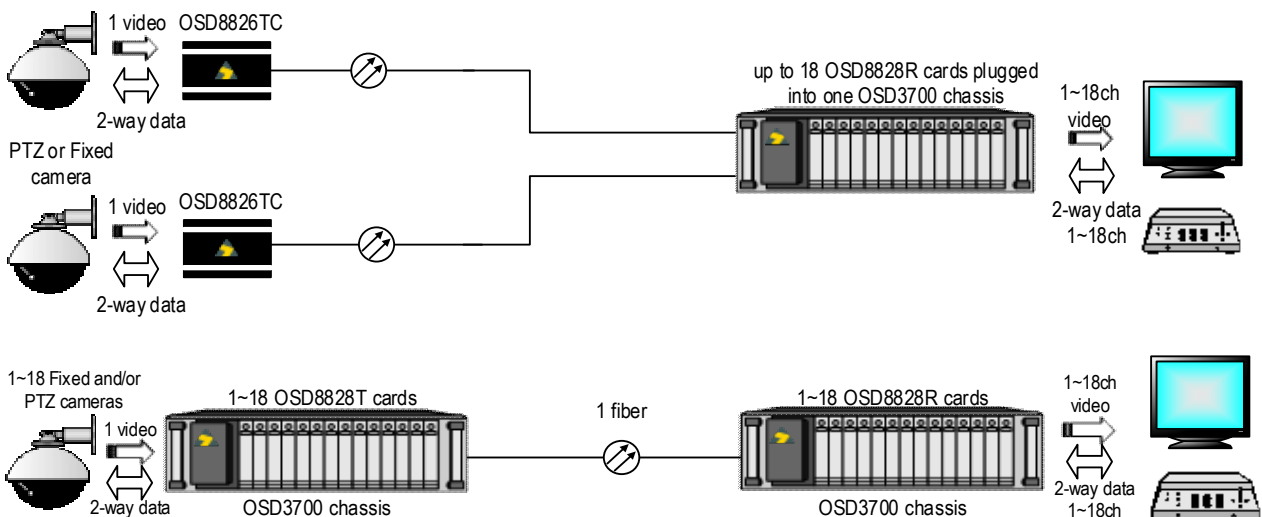
- ▲ High quality CCTV networks requiring full duplex or reverse data transmission between cameras and their control centre
- ▲ Transportation communications systems
- ▲ Safe city projects



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 useful for tamper alarms
- ▲ Broadcast quality 10 bit video maintained over all link lengths
- ▲ Video bandwidth of 6MHz
- ▲ Single fiber operation.
- ▲ Units are completely compatible with the OSD8826T and OSD8826R cards and modules
- ▲ Up to 18 units plug into the OSD3700 2RU high 19" rack mounting enclosure
- ▲ 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 (Contact OSD for details)
- ▲ Standard operation using multimode or singlemode fiber: no need to specify fiber type

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

- OSD8828T Video transmitter card with 1 duplex data channel
 OSD8828R Video receiver card with 1 duplex data channel



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 OSD8828T, MOSFET output at OSD8828R
Data Connector	8-way Cage Clamp Terminal Block

OPTICAL

Number of fibers required	One only
OSD8828T Transmitter Wavelength	1310nm
OSD8828T Transmitter Coupled Power	-14 to -4dBm into singlemode fiber -11 to -1dBm into multimode fiber
OSD8828R Transmitter Wavelength	1550nm
OSD8828R Transmitter Coupled Power	-15 to -4dBm into singlemode fiber -12 to -1dBm into multimode fiber
OSD8828R Receiver Sensitivity	<-33dBm
OSD8828R Receiver Saturation	>-3dBm
OSD8828T Sensitivity	<-36dBm (singlemode fiber)
OSD8828T Receiver Saturation	>-3dBm
Optical Link Budget and Distances	>22dB: >5km on multimode fiber @ 1310nm (fiber bandwidth limited) >19dB: >40km on singlemode fiber @ 1310nm (fiber loss limited)
Optical Connectors	ST is standard, SC and FC are optional

PHYSICAL

Dimensions of Card (mm)	20W x 216D x 70H
Weight of Card	200g
Power Requirements	+10 to 40VDC
Power Connector	4-way PCB mounting plug
Operating Temperature	-40 to +75°C
Relative Humidity	0 to 95% non-condensing
OSD8828T Indicators	Tx Video Present Link OK
OSD8828R Indicators	Rx Video Present Link OK
Chassis Current Consumption (CCC)	0.20 Amp