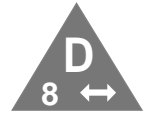


**APPLICATIONS**

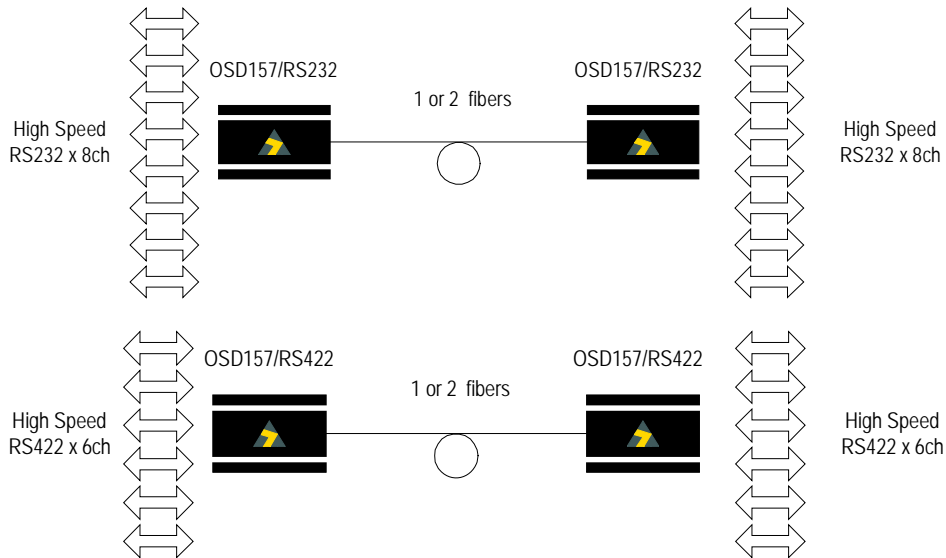
- ▲ Military communications
- ▲ Secure networks
- ▲ Very high speed RS232 or RS422 links
- ▲ Computer to terminal cluster communications



**FEATURES AND BENEFITS**

- ▲ Factory configurable for either eight unbalanced signals or six balanced signals
- ▲ All signals are totally independent of each other
- ▲ Signals may operate at any speed from DC to 150kbps
- ▲ Small EMI/RFI resistant metal enclosure
- ▲ Also available as a card to plug into OSD370 19" rack mounting chassis
- ▲ Safe transmission in hazardous environments
- ▲ More secure than copper cables
- ▲ Small size, low cost, robust and reliable

**TYPICAL APPLICATION DESIGN**



**ORDERING INFORMATION**

OSD157/RS232	RS232 Transceiver
OSD157/RS422	RS422 Transceiver
Option L	1310nm Singlemode Version
Option C	standalone module format



# SPECIFICATIONS

## PERFORMANCE

Data Rate	DC to 150kbps Sampling rate on each line: 819kHz
Optical Transmit Power	-17 to -12dBm into 62.5/125 multimode fiber -20 to -12dBm into singlemode fiber (OSD157L only)
Receiver Sensitivity	<-33dBm
Optical Link Budget	>16dB at 850nm (>4km of multimode fiber) >13dB at 1310nm (>25km of singlemode fiber)
Receiver Saturation	>-10dBm
Optical Wavelength	850nm nominal (1310nm for OSD157L version)
Optical Connector	ST standard
Electrical Connector	25 pin female D subminiature
Electrical Configuration	DCE
Electrical Interface	RS232C/V24 with output peak voltage between $\pm 4$ and $\pm 6$ V or RS422
Power	+8 to +13VDC @ 150mA supplied by external power supply, or via pin 9 on the D connector on the RS232 version
Indicator	Link OK
Dimensions of Module (mm)	104W x 144D x 25H
Weight of Module	400g
Dimensions of Card	25W x 208D x 100H
Weight of Card	200g
Operating Temperature	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.15 Amp

## D CONNECTOR PIN ASSIGNMENTS

