

**OSD2044 10/100Base-T to 100Base-Fx SWITCHING TYPE
MEDIA CONVERTER**

APPLICATIONS

- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Remote sites with one to four 10 or 100Base-T
- ▲ IP connections

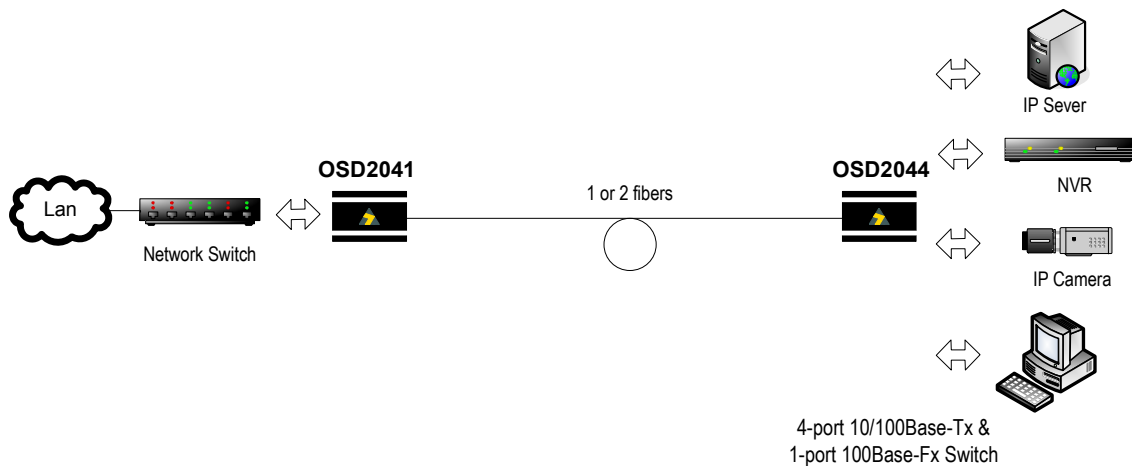
FEATURES AND BENEFITS

- ▲ Complies with the IEEE 802.3 standard.
- ▲ Supports up to 4 copper ports each of which can have network traffic of 10 or 100Mbps.
- ▲ Automatic TP setup: no need for crossover cables.
- ▲ Auto-sensing of half or full duplex operation.
- ▲ Automatic setup for 10 or 100Mbps on copper side.



- ▲ Available for singlemode, multimode operation over a variety of link budgets
- ▲ Available for operation over 1 or 2 fibers.
- ▲ Powered by non critical 12VDC supplies
- ▲ Operates over the temperature range of -20 to +75°C

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

Option LP	Low Power (for Multimode Fiber)
Option ST	ST optical connectors
Option SC	SC optical connectors
Option M	Standalone module version
Option WA	Single fiber operation (TX @ 1310nm, Rx @ 1550nm)
Option WB	Single fiber operation (TX @ 1550nm, Rx @ 1310nm)



SPECIFICATIONS

Data Interface	IEEE 802.3 10/100Base-T Ethernet
Data Rate	10/100Mbps
Operating Mode	Half or full duplex
Data Connector	RJ45
Number of Data Connectors	4
Optical Interface	100Base-Fx
Optical Connectors	ST or SC (SC only for single fiber operation)
Transmitter Wavelength	1310nm
Transmit Optical Power	-12 to -5dBm into singlemode fiber -10 to -2dBm into multimode fiber -19 to -10dBm into multimode fiber (OSD2041LP only)
Receiver Sensitivity	<-33dBm
Receiver Saturation	>-2dBm
Standard Optical Link Budget	>21dB: >10km on multimode fiber @ 1310nm >40km on singlemode fiber @ 1310nm
Optional SM Optical Link Budget	>33dB: >100km on singlemode with 0dBm 1550nm transmitter
Optional MM Link Budget	>13dB: > 5km on multimode fiber (Option LP only)

PHYSICAL

Operating Temperature Range	-20°C to +75°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	+8V to 35V DC or 22 to 28VAC @ 4VA
Power Connector	DB9 connector on card 2 way terminal block with spring clamps on module
Indicators	TP activity on each RJ45 TP link speed on each RJ45 Fiber link OK Fiber link activity
Dimensions of Module (mm)	113W x 105D x 32H
Weight of Module (kg)	0.5
Dimensions of Card (mm)	25W x 208D x 100H
Weight of Card (kg)	0.3
Chassis Current Consumption (CCC)	0.30 Amp