

**OSD2041 10/100Base-T to 100Base-Fx  
BRIDGE TYPE MEDIA CONVERTER**



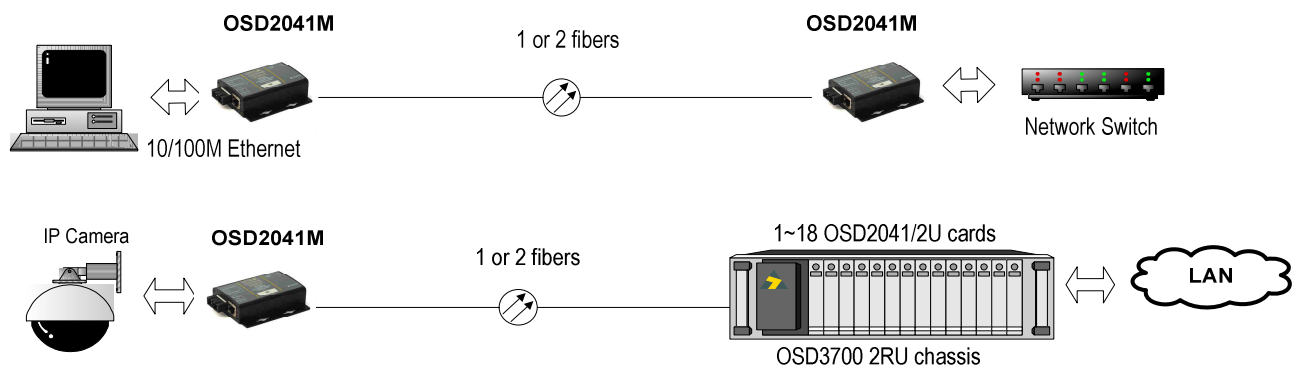
**APPLICATIONS**

- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications

**FEATURES AND BENEFITS**

- ▲ Complies with the IEEE 802.3 standard.
- ▲ Supports 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 and multimode operation over a variety of link budgets
- ▲ Available for operation over 1 or 2 fibers.
- ▲ Powered by non critical 12VDC, 24VAC supplies or optional -48VDC supplies
- ▲ Operates over the temperature range of -20 to +75°C

**TYPICAL SYSTEM DESIGN**



**ORDERING INFORMATION**

OSD2041	10/100BaseT to 100BaseFx media converter card to plug into the OSD370 or OSD350 chassis
Option LP	Low Power (for multimode fiber)
Option 48VDC	48VDC power supply
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)
Option 2U	2RU card version to slot into the OSD3700 chassis
Option MD	OSD2041M mounted on a miniature DIN-Rail Bracket



## SPECIFICATIONS

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Data Interface	IEEE 802.3 Ethernet
Data Rate	10/100Mbps
Operating Mode	Half or full duplex
Data Connector	RJ45
Optical Interface	100Base-Fx
Optical Connectors	ST or SC
Transmitter Wavelength	1310nm
Transmit Optical Power	-15 to -7dBm into singlemode fiber -13 to -4dBm into multimode fiber  -19 to -10dBm into multimode fiber (OSD2041LP only)
Receiver Sensitivity	<-33dBm
Receiver Saturation	>-2dBm
Standard SM Optical Link Budget	>18dB: >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
Standard Power Requirements	+8V to 35V DC or 22 to 28VAC @ 3VA
Optional 48VDC Power Requirements	+18V to 75V DC @ 3VA
Isolation for the 48VDC option	>3kV
Power Connector	DB9 connector on 3RU card 2 way terminal block on module 4-way PCB mounting plug on 2RU card
Indicators	TP activity TP link speed Fiber link OK Fiber link activity
Dimensions of Module (mm)	60W x 94D x 26H
Weight of Module (kg)	0.3
Dimensions of Card (mm)	25W x 208D x 100H
Weight of Card (kg)	0.3
Dimensions of 2RU Card (mm)	20W x 216D x 70H
Weight of 2RU Card (kg)	0.2
Chassis Current Consumption (CCC)	0.25 Amp