

OSD2151 10/100/1000BaseT ETHERNET  
MEDIA CONVERTER



APPLICATIONS

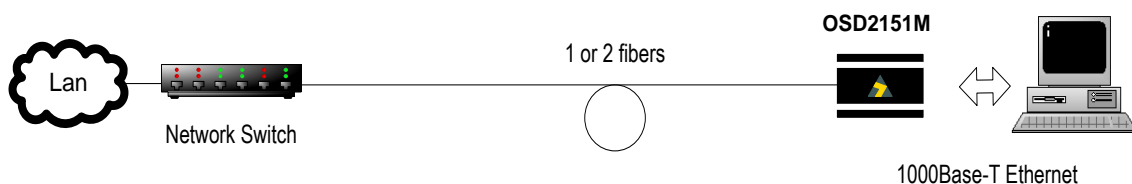
- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Gigabit backbone networks



FEATURES AND BENEFITS

- ▲ Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3z 1000Base-Lx/Sx standards.
- ▲ Supports network traffic of 100Mbps or 1000Mbps.
- ▲ Has one fixed 10/100/1000BaseT copper port and one SFP port which can be 10/100/1000BaseT, 100Base-Fx or 1000BaseLx/Sx.
- ▲ Automatic TP setup: no need for crossover cables.
- ▲ Can be used with either singlemode or multimode fiber 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
- ▲ Advanced features like Link Loss Forwarding to detect the link status of link partners either on the fiber and/or copper port
- ▲ SFP module sold separately.
- ▲ Use OSD2151 in OSD350B & OSD370B 19" rack mounting if required

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

- OSD2151M Singlemode or multimode 10/100/1000Base –T to 100Base-Fx/1000Base-Lx/Sx Media Converter Module
- SFP Module See OSD SFP datasheet #1021000XX (GbE) or #102100XX (100Fx)



# SPECIFICATIONS

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## ELECTRICAL

Electrical Data Interface	IEEE802.3i/802.3u/802.3ab, 10/100/1000Base-T Ethernet
Electrical Data Rate	10, 100, 1000Mbps with energy detect, auto negotiate, auto MDIX
Optical Data Interface	IEEE802.3z 1000Base-Lx/Sx
Optical Data Rate	100Mbps or 1000Mbps
Operating Mode	Half or full duplex for 10/100 Full duplex for 1000 Pause frames for 1000Mbps flow control
Electrical Data Connector	RJ45
User Controls	100/1000BASE-X for optical port Link Loss Forwarding Enable/Disable Fault Detection on fiber port or RJ45 port / both

## OPTICAL

Optical Port Connector	SFP
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheet #1021000XX or contact OSD

## PHYSICAL

Operating Temperature Range	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	+8V to 35V DC or 20 to 28V AC @ 3VA
Power Connector	2 way terminal block
Indicators	Power Copper link, blink indicates activity Fiber Rx – Link/No Link
Dimensions of Module (mm)	60W x 94D x 26H
Weight of Module (kg)	0.3