ETHERNET PRODUCTS

OSD2151 10/100/1000BaseT ETHERNET MEDIA CONVERTER

APPLICATIONS
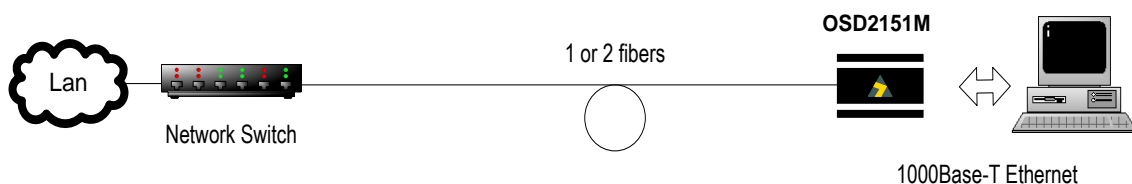
▲ Any network utilising a mix of copper and fiber

▲ 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 +75ºC

▲ 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.

TYPICAL SYSTEM DESIGN

OSD2151M

Lan

Network Switch

1 or 2 fibers

1000Base-T Ethernet

ORDERING INFORMATION

OSD2151	Singlemode or multimode 10/100/1000Base –T to 100Base-Fx/1000Base-Lx/Sx Media Converter in card format
Option M	Module format
SFP Module	See OSD SFP datasheet #1021000XX (GbE) or #102100XX (100Fx)

SPECIFICATIONS

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 +75ºC
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 for OSD2151M
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
Dimensions of Card (mm)	25W x 169D x 100H
Weight of Card (kg)	0.2
Chassis Current Consumption (CCC)	0.25 Amp for OSD2151 card