OSD2153 MINIATURE 10/100/1000BaseT ETHERNET MEDIA CONVERTER
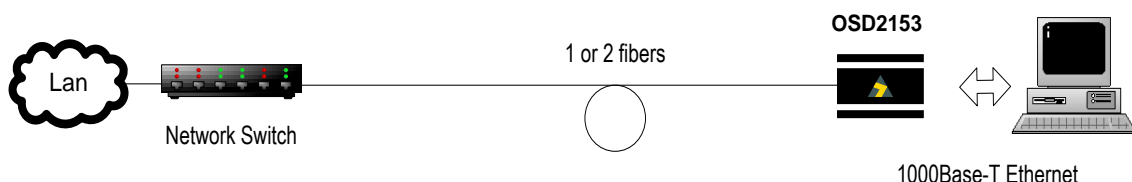
APPLICATIONS

▲ Any network utilising a mix of copper and fiber

▲ Industrial IP communications

▲ Gigabit backbone networks

▲ Extremely space constrained environments

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

▲ Interoperates with the OSD2151 card or module

▲ SFP module sold separately.

▲ Supports 10KB jumbo frames

TYPICAL SYSTEM DESIGN

Lan — Network Switch — 1 or 2 fibers — **OSD2153** — 1000Base-T Ethernet

ORDERING INFORMATION

OSD2153   Miniature singlemode or multimode 10/100/1000Base –T to 100Base-Fx/1000Base-Lx/Sx
            media converter module
SFP Module   See OSD SFP datasheet #102100002

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
Controls	100 or 1000Mbps on fiber Link loss forwarding: on or off Fault detection: fiber only or copper and fiber

OPTICAL

Optical Port Connector	SFP
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheet #102100002 or contact OSD

PHYSICAL

Operating Temperature Range	-20 to +75ºC
Relative Humidity	0 to 95% non-condensing
Power Requirements	+8V to 35V DC
Power Connector	2-way 3.5mm terminal block
Indicators	Power Copper link, blink indicates activity Fiber Rx – Link/No Link
Dimensions (mm)	52W x 55D x 26H
Weight (kg)	0.2