

**OSD2153 MINIATURE 10/100/1000Base-T
ETHERNET MEDIA CONVERTER**



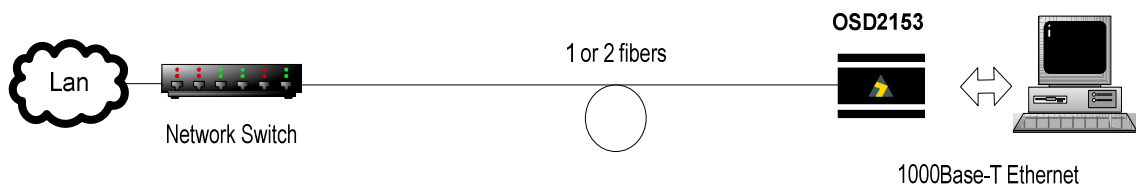
APPLICATIONS

- ▲ 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 10/100/1000Base-T copper port and one SFP port which can be 10/100/1000BaseT, 100Base-Fx or 1000BaseLx/Sx/Zx.
- ▲ Auto MDI/MDIX.
- ▲ Can be used with either singlemode or multimode fiber over a variety of link budgets.
- ▲ Optionally available with PoE++ (up to 60W), complying with the IEEE802.3af and IEEE802.3at standards.
- ▲ Available for operation over 1 or 2 fibers.
- ▲ Powered by non-critical 12VDC supplies (non-PoE).
- ▲ 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
- ▲ Interoperates with the OSD2151 card or module
- ▲ SFP module sold separately.
- ▲ Supports 10KB jumbo frames

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

OSD2153 SFP Module Miniature 10/100/1000Base -T to 100Base-Fx/1000Base-Lx/Sx media converter module
See OSD SFP datasheet #1021000XX



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
Jumbo Frame Support	10KB
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 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 #1021000XX or contact OSD

PHYSICAL

Operating Temperature Range	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
OSD2153 Power Requirements	+8VDC to +35VDC
Power Connector	2-way 3.5mm terminal block on the module
Indicators	1x Power 1x Copper link, blink indicates activity 1x Fiber Rx – Link/No Link
Dimensions (mm)	52W x 56D x 26H
Weight (kg)	0.3