

OSD2153P MICRO 10/100/1000Base-T to 1000Base-X BRIDGE TYPE MEDIA CONVERTER with PoE++ SOURCE

APPLICATIONS

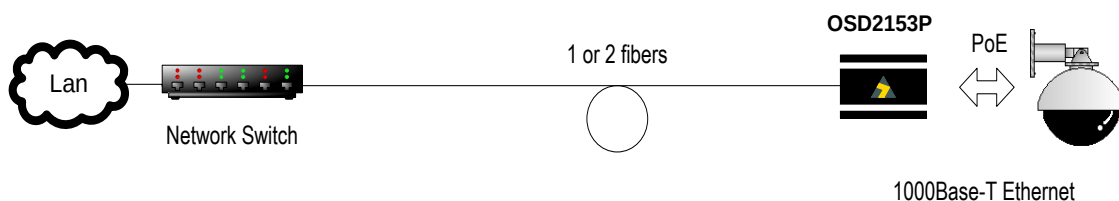
- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Gigabit backbone networks
- ▲ Extremely space constrained environments



FEATURES AND BENEFITS

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| ▲ Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3z 1000Base-Lx/Sx standards. | ▲ Available for operation over 1 or 2 fibers. |
| ▲ Supports network traffic of 100Mbps or 1000Mbps. | ▲ Powered by non-critical 50VDC supplies. |
| ▲ Has one fixed 10/100/1000Base-T copper port and one SFP port which can be 10/100/1000Base-T, 100Base-Fx or 1000BaseLx/Sx/Zx. | ▲ Operates over the temperature range of -20 to +75°C |
| ▲ Auto MDI/MDIX. | ▲ Advanced features like Link Loss Forwarding to detect the link status of link partners either on the fiber and/or copper port |
| ▲ Can be used with either singlemode or multimode fiber over a variety of link budgets. | ▲ Interoperates with the OSD2151 card or module |
| ▲ Complies with the IEEE802.3af and IEEE802.3at standards providing up to 30W from PSE | ▲ Supports IEEE802.af/at Alternative A, and B cable wiring |
| ▲ Can provide up to 60W from PSE using proprietary Linear Tech LTPoE++ standard. | ▲ Supports 10KB jumbo frames |
| | ▲ SFP module sold separately. |

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

OSD2153P	Micro 10/100/1000Base-T to 100Base-Fx/1000Base-X media converter module with PoE++
SFP 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 or IEEE802.3u 100Base-Fx
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
PoE	IEEE802.3af, IEEE802.3at and PoE++
Operating Mode	Alternative A & B (Pins 1/2, 3/6, 4/5, and 7/8)

OPTICAL

Optical Port Connector	SFP (LC connectors for 2-fiber operation and SC for 1-fiber operation)
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
OSD2153P Power Requirements	+46VDC to +57VDC @ 6W plus up to an extra 60W for PoE operation (attached powered device dependent) ≥52VDC recommended for PoE+ or ≥55VDC for 60W PoE
Power Connector	2-way 3.5mm terminal block on the module
Indicators	1x Copper Link/Activity on RJ45 1x Copper Speed on RJ45 1x PoE Enable/Disable 1x Power On/Off 1x Link Loss Forwarding Enable/Disable 1x SFP Link/Speed on SFP
Dimensions (mm)	90W x 58D x 49H
Weight (kg)	0.3