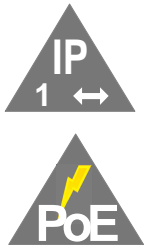


**OSD2053P MICRO 10/100Base-T to 100Base-X
MEDIA CONVERTER with PoE SOURCE**

APPLICATIONS

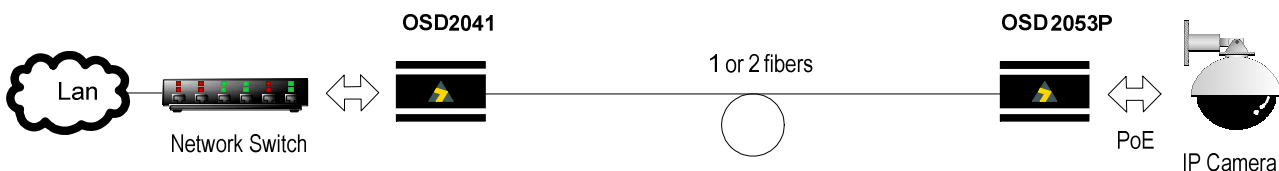
- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Extremely space constrained environments
- ▲ Networks using Power over Ethernet devices such as cameras, intercoms, access control, telephones, etc



FEATURES AND BENEFITS

- ▲ One 10/100Base-T RJ45 ports and one SFP fiber port.
- ▲ Supports IEEE802.3af Alternative B cable wiring.
- ▲ Complies with the IEEE 802.3af standard including compliant powered device (PD) signature detection and classification.
- ▲ Provides up to 15.4W PoE.
- ▲ Supports network traffic of 10 or 100Mbps.
- ▲ Auto MDI/MDIX.
- ▲ Automatic TP setup: no need for crossover cables.
- ▲ Auto-sensing of half or full duplex operation.
- ▲ Automatic setup for 10 or 100Mbps on copper side.
- ▲ A very compact design that fits in the camera housing
- ▲ Available for singlemode, multimode operation over a variety of link budgets
- ▲ Available for operation over 1 or 2 fibers.
- ▲ Powered by non-critical 10 to 36VDC supply, 48VDC supply optional.
- ▲ Operates over the temperature range of -20 to +75°C
- ▲ Utilises 100Base-X SFP transceivers that can be selected according to specific length or fiber requirements without changing the whole unit.
- ▲ DIN rail mounting
- ▲ SFP Module sold separately.

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

OSD2053P	Micro standalone 10/100Base-T to 100Base-X media converter with PoE
OSDSFP100Fx	2-fiber 100Base-Fx 1310nm SFP plugin module with LC connectors
OSDSFP100WfXA	1-fiber 100Base-Fx SFP plugin module with an SC connector (Tx @ 1310nm, Rx @ 1550nm)
OSDSFP100WfXB	1-fiber 100Base-Fx SFP plugin module with an SC connector (Tx @ 1550nm, Rx @ 1310nm)
Option 48	48VDC Power



SPECIFICATIONS

ELECTRICAL

Data Interface	IEEE 802.3 Ethernet
Data Rate	10/100Mbps
Operating Mode	Half or full duplex
Data Connector	RJ45 mounted on the front panel
PoE	IEEE802.3af
Operating Modes	Alternative B (Pins 4/5 and 7/8)

OPTICAL

Optical Interface	100Base-Fx/Sx
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 #102100XX or contact OSD
Transmit Optical Power	-15 to -8dBm into singlemode fiber (See SFP datasheet for details)
Receiver Sensitivity	<-33dBm
Receiver Saturation	>-3dBm
Standard Optical Link Budget	>18dB: >10km on multimode fiber @ 1310nm >40km on singlemode fiber @ 1310nm

NOTE: Special configurations to cover longer distances or short distance multimode links are also available. Contact OSD for a full listing of available options

PHYSICAL

Operating Temperature Range	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	+10VDC to +36VDC @ 3W plus up to an extra 20VA for PoE operation (attached powered device dependent). Use of isolated power supply is recommended.
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 SFP Link/Speed on SFP
Dimensions of Module (mm)	90W x 58D x 49H
Weight of Module (kg)	0.3