OSD2051P MICRO 10/100Base-T to 100Base-Fx BRIDGE TYPE MEDIA CONVERTER with PoE SOURCE

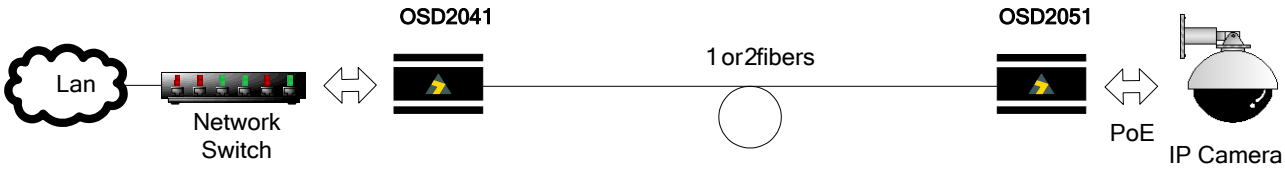
APPLICATIONS

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

FEATURES AND BENEFITS

- Supports IEEE802.af Alternative A and B cable wiring.
- Complies with the IEEE 802.3af standard including compliant powered device (PD) signature detection and classification.
- Provides up to 15.4W to the PD.
- Supports network traffic of 10 or 100Mbps.
- 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 35VDC or 24VAC supplies
- Operates over the temperature range of -20 to +75ºC
- Utilizes 100Base-Fx SFP transceivers that can be selected according to specific length or fiber requirements without changing the whole unit.
- SFP Module sold separately.

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

OSD2051P	Micro standalone 10/100BaseT - 100BaseFx Media Converter with POE
OSDSFP100Fx	2-fiber 100Base-Fx 1310nm SFP Plugin Module with LC connectors for up to 10km
OSDSFP100FxA	Single fiber SFP Plugin Module with an SC connector for up to 10km (TX @1310nm, Rx@1550nm)
OSDSFP100FxB	Single fiber SFP Plugin Module with an SC connector for up to 10km (TX @ 1550nm, Rx @ 1310nm)

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	46 to 50V @ 0.4Amp maximum
Operating Modes	Alternative A (Pins 1/2 and 3/6) And Alternative B (Pins 4/5 and 7/8)

OPTICAL

Optical Interface	100BaseFx
Optical Port Connector	SFP (LC connectors for 2-fiber operation and SC for 1-fiber operation)
SFP Options	OSDSFP100Fx: 2 fiber, SFP Plug-in Transceiver @1310nm OSDSFP100WFxA: 1 fiber, SFP Plug-in Transceiver (Tx @1310nm, Rx @ 1550nm) OSDSFP100WFxB: 1 fiber, SFP Plug-in Transceiver (Tx @1550nm, Rx @ 1310nm)
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 are also available. Contact OSD for a full listing of available options.

PHYSICAL

Operating Temperature Range	-20 to +75ºC, derated by 2ºC per watt supplied over the Ethernet cable. Reduces to +45ºC when connected to a 15W load
Relative Humidity	0 to 95% non-condensing
Power Requirements	+10V to 35V DC or 22 to 28VAC @ 2VA plus up to an extra 20VA for POE operation (attached powered device dependent)
Power Connector	3.5mm 2-way terminal block on the module
Indicators	TP activity TP link speed Power indicator Fiber link activity PoE operation
Dimensions of Module (mm)	52W x 55D x 26H
Weight of Module (kg)	0.3

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