

**OSD2041PSS 10/100Base-T to 100Base-Fx POWER
SUBSTATION BRIDGE TYPE MEDIA CONVERTER**



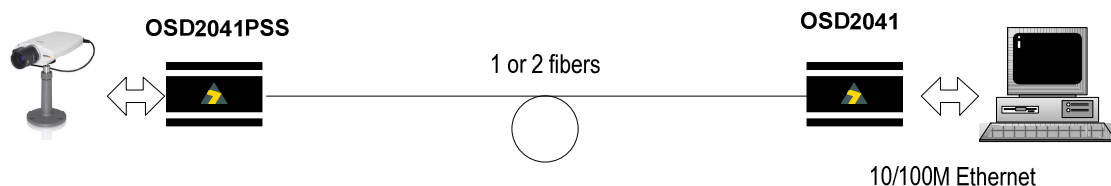
APPLICATIONS

- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Harsh environments such as Extra High Voltage Switchyards

FEATURES AND BENEFITS

- ▲ Complies with the IEEE 802.3 standard.
- ▲ 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.
- ▲ Available for singlemode and multimode operation 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 +75°C
- ▲ High-EMI noise immunity

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

Option LP	Low Power (for multimode fiber)
Option ST	ST optical connectors
Option SC	SC optical connectors
Option M	Standalone module version
Option WA	Single fiber operation (TX @ 1310nm, Rx @ 1550nm)
Option WB	Single fiber operation (TX @ 1550nm, Rx @ 1310nm)



SPECIFICATIONS

Data Interface	IEEE 802.3 Ethernet
Data Rate	10/100Mbps
Operating Mode	Half or full duplex
Data Connector	RJ45
Optical Interface	100Base-Fx
Optical Connectors	ST or SC (SC only for single fiber operation)
Transmitter Wavelength	1310nm
Transmit Optical Power	-12 to -5dBm into singlemode fiber -10 to -2dBm into multimode fiber -19 to -10dBm into multimode fiber (OSD2041LP only)
Receiver Sensitivity	<-33dBm
Receiver Saturation	>-2dBm
Standard SM Optical Link Budget	>21dB: >10km on multimode fiber @ 1310nm >40km on singlemode fiber @ 1310nm
Optional SM Optical Link Budget	>33dB: >100km on singlemode with 0dBm 1550nm transmitter
Optional MM Link Budget	>13dB: > 5km on multimode fiber (Option LP only)

PHYSICAL

Operating Temperature Range	-20°C to +75°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	+8V to 35V DC @ 3VA
Power Connector	DB9 connector on card 2 way terminal block on module
Indicators	TP activity TP link speed Fiber link OK Fiber link activity
Dimensions of Module (mm)	60W x 94D x 26H
Weight of Module (kg)	0.3
Dimensions of Card (mm)	25W x 208D x 100H

COMPLIANCE

Safety	IEC60950
EMI	EN55022 EN61000-4-2 EN61000-4-4 EN61000-4-8 EN61000-4-11 EN61000-4-17 EN61000-4-18