OPERATOR MANUAL

OSD2041

10/100Base-Tx to 100Base-Fx MEDIA CONVERTER

The OSD2041 is designed to convert between 10/100Base-Tx copper cabling and 100Base-Fx fiber. Operation over at least 100km of singlemode fiber is possible by use of the appropriate optical devices. It normally operates over two fibers but is optionally available for 1 fiber operation. It is equipped with 2 optical connectors (1 for single fiber use), 1 RJ45 and power jack. For ease of network monitoring and fault isolation it has 4 indicators (see tables).

Specifications and Features

- ▲ 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 set up for 10 or 100Mbps on copper side.

Optical Port LED indicators

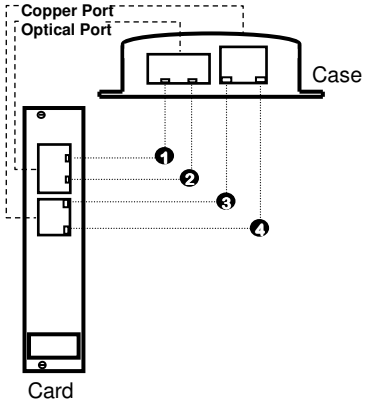
	Function	On	OFF	Blinks
❶	Link/Act	Link OK	No optical signal received	Tx/Rx activity
❷	Power	On	No Power	-

Copper Port LED indicators

❸ Link/Act*	❶ 100Mb/s	Function
Off	On	100Mb/s operation. Link Idle
Green Blinks	On	100Mb/s operation. Tx/Rx activity
Amber On	On	100Mb/s connection without auto-negotiation. Link Idle
Amber Blinks	On	100Mb/s connection without auto-negotiation. Rx activity
Amber-Green Alternating	On	100Mb/s connection without auto-negotiation. Tx/Rx activity
Amber On	Off	10Mb/s operation. Link Idle
Amber Blinks	Off	10Mb/s operation. Tx/Rx activity

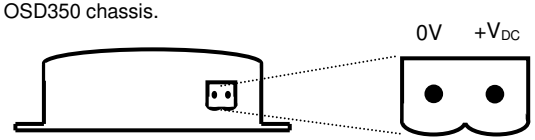
*Link/Act LED is Green on some RJ45 connectors (Off - No Link, Green-Link, Blink-Link Active)

Port Allocation and LED Indicators



Power Connection

The voltage range of the OSD2041 is $8V_{DC}$ to $35V_{DC}$ or 22 to $28V_{AC}$ @3VA. Connect power to the connector located at the back of the case (see diagram). The OSD2041 card version is connected via a DB9 connector supplied by the OSD370 or OSD350 chassis.



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Technical Specifications

Specification	Performance
Data Interface	IEEE802.3 Ethernet
Data Connector	RJ45
Data Rate	10/100Mbps
Operating Mode	Half or full duplex
Optical Interface	100Base-Fx
Optical interface	ST or SC (SC for single fiber version)
Transmit Wavelength/Power	-15 to –7dBm into singlemode fiber -13 to –4dBm into multimode fiber -19 to –10dBm into multimode fiber (OSD 2041LP only)
Receiver Sensitivity	<-33dBm
Optical Link Budget (Std)	> 18dB: >10km on MM fiber @ 1310nm >40km on SM fiber @ 1310nm
Optional Link Budget	>33dB: >100km on SM with 0dBm 1550nm transmitter
Dimensions (mm)	114W x 105D x 32H (module) 25W x 208D x 100H (card)
Weight	0.5kg (module), 0.3kg (card)
Power Requirements	$+8V_{DC}$ to $35V_{DC}$ or 22 to $28V_{AC}$ @ 3VA
Operating Temperature	-20°C to +75°C
Relative Humidity	0 to 95% non-condensing
Chassis Current Consumption (CCC)	0.25 Amp

WARNING: Laser Safety: Class 1 Laser Product per IEC/EN 60825-1:20011 standard.

Warranty/Repairs

For warranty period and repair service please call your local OSD distributor.

OPTICAL SYSTEMS DESIGN PTY LTD

7/1 Vuko Place, Warriewood 2102.
PO Box 891, Mona Vale,
NSW, Australia 1660.
Phone: +61 2 9913 8540
Fax: +61 2 9913 8735