OSD2251P 4-PORT REDUNDANT RING GIGABIT ETHERNET SWITCH with PoE+ SOURCE

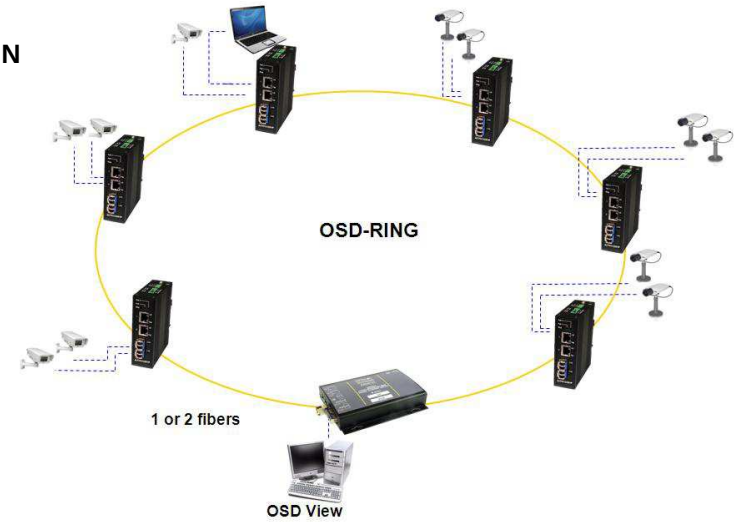
APPLICATIONS

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

FEATURES AND BENEFITS

- Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3u 100Base-Fx, IEEE802.3z 1000Base-Lx/Sx standards
- Has a total of four ports: two fixed copper ports for 10/100/1000Base-T and two SFP ports for the fiber ring
- A network diameter of hundreds of kilometers is practical
- Ring reconfiguration in the case of cable or switch failures takes less than two milliseconds per hop
- MDI/MDIX Crossover: no need for crossover cables
- Can be used with either singlemode or multimode fiber over a variety of link budgets
- Available for operation over 1 or 2 fibers
- Auto-Negotiation for half or full duplex operation
- Supports IEEE802.af/at Alternative B cable wiring
- Complies with the IEEE 802.3af/at standard including compliant powered device (PD) signature detection and classification
- Provides up to 30W to each RJ45 port
- Powered by either one or two non-critical 46 to 57VDC supplies
- Operates over the temperature range of -20 to +75ºC
- OSDview Lite Network Management System
- Compatible with the OSD2244 Gigabit Ethernet switch
- DIN rail mounting
- SFP module sold separately.

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

OSD2251P	PoE+ version of OSD2251 in DIN rail mounting or standalone module format
SFP Module	See OSD SFP datasheet #102100002

OPTICAL SYSTEMS DESIGN PTY LTD 7/1 Vuko Pl. Warriewood N.S.W. Australia 2102
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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
Optical Data Interface	IEEE802.3z 1000Base-Lx/Sx or IEEE802.3u 100Base-Fx
Optical Data Rate	100Mbps or 1000Mbps user selectable
Operating Mode	Half or full duplex for 10/100 Full duplex for 1000 Pause frames for 1000Mbps flow control
Electrical Data Connectors	RJ45
Alarms	Ring to Bus High Temperature
Alarm Interface	Optoisolated MOSFET rated at 100mA @ 46V maximum
PoE	46 to 57V @ 0.65Amp maximum per RJ45
Operating Mode	Alternative B (Pins 4/5 and 7/8)

OPTICAL

Optical Port Connectors	SFP
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheet #102100002 or contact OSD

PHYSICAL

Operating Temperature Range	-20 to +75ºC
Relative Humidity	0 to 95% non-condensing
Power Requirements	46 to 57VDC @ 1.5A maximum (attached powered device dependent)
Power Connector	4 way 5.08mm terminal block
Alarm Connector	4 way 3.5mm terminal block
Indicators	2x Copper Speed/Activity/Link on RJ45s 2x Copper Duplex on RJ45s 2x PoE operation on RJ45s 2x SFP Speed/Activity/Link on SFPs 1x Initialise/Ring/Bus
Dimensions of Module (mm)	43W x 91D x 110H
Weight of Module (kg)	0.48

Specifications contained herein are correct at the time of printing. We reserve the right to alter specifications without notice.