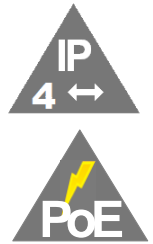


**OSD2254P 6-PORT REDUNDANT RING GIGABIT
ETHERNET SWITCH with SUPERPoE++**

APPLICATIONS

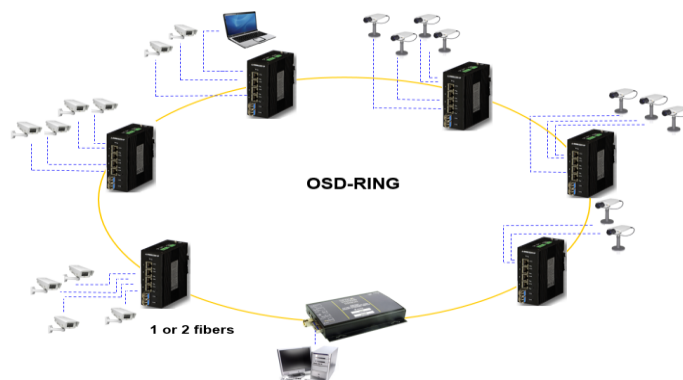
- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Self-healing Gigabit Ethernet backbone networks
- ▲ Networks using Power over Ethernet devices such as cameras, intercoms, access control, telephones, etc



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 six ports: four fixed copper ports for 10/100/1000Base-T and two SFP ports for the fibre ring or non-ring (100Base-Fx or 1000Base-X)
- ▲ 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 1 or 2 singlemode or multimode fibers over a variety of link budgets
- ▲ Available for operation in ring, bus or point to point configurations
- ▲ Auto-Negotiation for half or full duplex operation
- ▲ Supports IEEE802.3af/at Alternative A and B cable wiring
- ▲ Complies with the IEEE 802.3af/at standard including compliant powered device (PD) signature detection and classification
- ▲ Provides up to 60W (90W optional) to each RJ45 port. Single and dual signature PD detection with OSD's unique automatic PoE configuration.
- ▲ Remote PoE on/off control and status monitoring
- ▲ Supports 10KB jumbo frames
- ▲ Powered by either one or two non-critical 46 to 57VDC supplies, ie redundant power inputs
- ▲ Operates over the temperature range of -40 to +75°C
- ▲ Redundant ring operation is compatible with all OSD22XX series Gigabit Ethernet switches
- ▲ DIN rail or surface mounting
- ▲ OSDWeb Web browser GUI and OSDview Lite Network Management System are both standard
- ▲ SFP module sold separately

TYPICAL SYSTEM DESIGN



ORDERING INFORMATION

OSD2254P	Industrial 6-port PoE++ Redundant Ring Gigabit Ethernet Switch with 60W per port
OSD2254P/90	Industrial 6-port PoE+++ Redundant Ring Gigabit Ethernet Switch with 90W per port
OSD2254	Non-PoE version of OSD2254P - See separate OSD2254 datasheet 1022254XX
SFP	SFP Module See OSD SFP datasheet #1021000XX



SPECIFICATIONS

ELECTRICAL

Electrical Data Interface	IEEE802.3i/802.3u/802.3ab/802.3af/802.3at, 10/100/1000Base-T Ethernet
Electrical Data Rate	10, 100, 1000Mbps with energy detect, auto negotiate, auto MDIX
Jumbo Frame Support	10KB
Optical Data Interface	IEEE802.3z 1000Base-Lx/Sx or IEEE802.3u 100Base-Fx
Optical Data Rate	100Mbps or 1000Mbps user selectable
Operating Mode	Ring or non-ring user selectable Half or full duplex for 10/100 Full duplex for 1000 Flow control
Electrical Data Connectors	RJ45
Alarms	Ring to Bus High Temperature
Alarm Interface	Opto-isolated MOSFET rated at 100mA @ 46V maximum
PoE	IEEE802.3af, IEEE802.3at and PoE++ (PoE+++ optional)
Operating Mode	Alternative A & B (Pins 1/2, 3/6, 4/5, and 7/8)

OPTICAL

Optical Port Connectors	SFP
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheet #1021000XX or contact OSD

MANAGEMENT

Standard Interfaces	Command Line Interface (CLI) for OSD Lite Network Management System Web browser based Graphical User Interface (GUI) (can be disabled by user)
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PHYSICAL

Operating Temperature Range	-40 to +75°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	46 to 57VDC @ 5VA maximum (no PoE in use) to 260VA maximum (All 4 ports supplying 60W PoE++ power) and 390VA maximum for the OSD2254P/90 (All 4 ports supplying 90W PoE+++ power) (attached powered device dependent) ≥52VDC recommended for PoE+ or ≥55VDC for 60W/90W PoE
Power Connector	4 way 5.08mm terminal block
Alarm Connector	4 way 3.5mm terminal block
Indicators	4x Copper Link on RJ45s 4x Copper Activity on RJ45s 4x PoE Operation on RJ45s 2x SFP Speed/Activity/Link on SFPs 1x Power/Temperature Alarm 1x Initialise/Ring/Bus
Dimensions of Module (mm)	43W x 91D x 130H
Weight of Module (kg)	0.5