

OSD2258P 10-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, IEEE802.3z 1000Base-Lx/Sx standards
- Has a total of 10 ports: eight 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 1 or 2 singlemode or multimode fibers over a variety of link budgets
- Auto-Negotiation for half or full duplex operation
- Supports 10KB jumbo frames

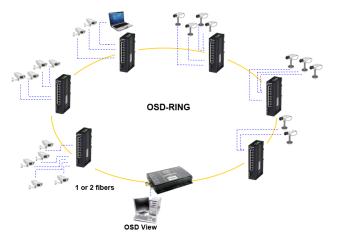
TYPICAL SYSTEM DESIGN







- Powered by one or two non-critical 46 to 57VDC supplies, ie redundant power inputs
- Supports IEEE802.3af/at Alternative A and B cable wiring
- Provides up to 60W to each RJ45 port with Ports 1 4 being single signature and Ports 5 - 8 being dual signature PD detection
- Remote PoE on/off control and status monitoring
- Operates over the temperature range of -40 to +75°C
- OSDWeb Web browser GUI included
- Compatible with all OSD22XX series of redundant ring Gigabit Ethernet switches
- DIN rail mounting
- ▲ SFP modules sold separately



ORDERING INFORMATION

OSD2258P OSD2258 SFP Module Industrial 10-port Redundant Ring Gigabit Ethernet Switch with up to 60W PoE on each RJ45 port Non-PoE version of the OSD2258P See separate datasheet 1022258XX See OSD SFP datasheet #1021000XX



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
Optical Data Rate	1000Mbps
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 Operating Mode PD Detection	IEEE802.3af, IEEE802.3at and IEEE802.3bt Alternative A & B (Pins 1/2+3/6 & 4/5+7/8) Single signature on Ports 1 - 4 (the 4 top ports) Dual signature on Ports 5 - 8 (the bottom 4 ports)
OPTICAL	
Optical Port Connectors	SFP
SFP Options	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheet #1021000XX or contact OSD
MANAGEMENT	
MANAGEMENT Standard Interfaces	Command Line Interface (CLI) for OSD Lite Network Management System
-	Command Line Interface (CLI) for OSD Lite Network Management System Web browser based Graphical User Interface (GUI)
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Standard Interfaces	
Standard Interfaces PHYSICAL	Web browser based Graphical User Interface (GUI)
Standard Interfaces PHYSICAL Operating Temperature Range	Web browser based Graphical User Interface (GUI) -40 to +75°C
Standard Interfaces PHYSICAL Operating Temperature Range Relative Humidity	Web browser based Graphical User Interface (GUI) -40 to +75°C 0 to 95% non-condensing 46 to 57VDC @ 5VA maximum (no PoE in use) to 500VA maximum (All 8 ports supplying 60W PoE++ power)
Standard Interfaces PHYSICAL Operating Temperature Range Relative Humidity Power Requirements	Web browser based Graphical User Interface (GUI) -40 to +75°C 0 to 95% non-condensing 46 to 57VDC @ 5VA maximum (no PoE in use) to 500VA maximum (All 8 ports supplying 60W PoE++ power) >52VDC recommended for PoE+ or ≥55VDC for PoE++ (60W)
Standard Interfaces PHYSICAL Operating Temperature Range Relative Humidity Power Requirements Power Connector	Web browser based Graphical User Interface (GUI) -40 to +75°C 0 to 95% non-condensing 46 to 57VDC @ 5VA maximum (no PoE in use) to 500VA maximum (All 8 ports supplying 60W PoE++ power) >52VDC recommended for PoE+ or ≥55VDC for PoE++ (60W) 8 way 5.08mm terminal block
Standard Interfaces PHYSICAL Operating Temperature Range Relative Humidity Power Requirements Power Connector Alarm Connector	Web browser based Graphical User Interface (GUI) -40 to +75°C 0 to 95% non-condensing 46 to 57VDC @ 5VA maximum (no PoE in use) to 500VA maximum (All 8 ports supplying 60W PoE++ power) >52VDC recommended for PoE+ or ≥55VDC for PoE++ (60W) 8 way 5.08mm terminal block 4 way 3.5mm terminal block 8x Copper Activity on RJ45s 8x Copper Speed/Link on RJ45s 8x PoE Operation on RJ45s/PoE Power Level/PoE Power Exceeded 2x Activity/Link on SFPs 1x Power