ETHERNET PRODUCTS

OSD2254 6-PORT REDUNDANT RING GIGABIT ETHERNET SWITCH

APPLICATIONS

▲ Any network utilising a mix of copper and fiber
▲ Industrial IP communications
▲ Self-healing Gigabit Ethernet backbone networks
▲ Networks using 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 singlemode or multimode fiber over a variety of link budgets
▲ Available for operation in Ring or point-to-point configuration
▲ Available for operation over 1 or 2 fibers
▲ Auto-Negotiation for half or full duplex operation
▲ Supports 10KB jumbo frames
▲ Powered by non-critical 10 to 36VDC or 24VAC supplies
▲ Operates over the temperature range of -20 to +75°C
▲ OSDview Lite Network Management System
▲ Compatible with the OSD2244 and OSD2251 Gigabit Ethernet switches
▲ DIN rail mounting
▲ SFP module sold separately

TYPICAL SYSTEM DESIGN

▲ Available for operation over 1 or 2 fibers
▲ Auto-Negotiation for half or full duplex operation
▲ Supports 10KB jumbo frames
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ORDERING INFORMATION

OSD2254 Industrial 6-port Redundant Ring Gigabit Ethernet Switch
OSD2254P PoE version of OSD2254
SFP Module 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
- 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

**OPTICAL**

- Optical Port Connectors: SFP
- SFP Options: Short haul, long haul, single fiber operation, etc.
  
**PHYSICAL**

- Operating Temperature Range: -20 to +75°C
- Relative Humidity: 0 to 95% non-condensing
- Power Requirements: +10V to +36V DC or 22 to 28VAC @ 10VA
- 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
  - 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