

### OSD2258 10-PORT REDUNDANT RING GIGABIT ETHERNET SWITCH

#### APPLICATIONS

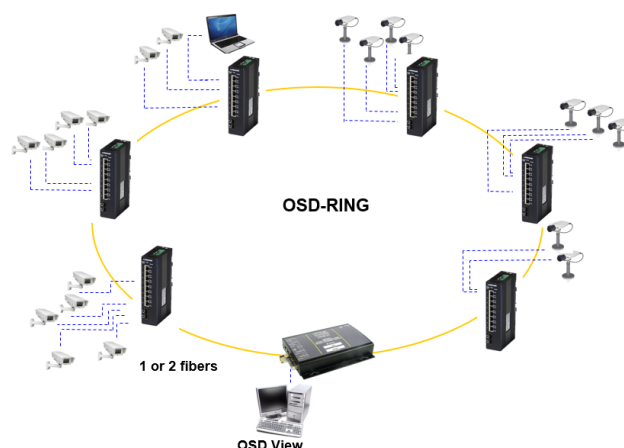
- ▲ Any network utilising a mix of copper and fiber
- ▲ Industrial IP communications
- ▲ Self-healing Gigabit Ethernet backbone networks
- ▲ Networks using Ethernet devices such as cameras, intercoms, access control, telephones, etc

#### FEATURES AND BENEFITS

- ▲ Complies with IEEE802.3i/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3z 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
- ▲ Powered by one or two non-critical 10 to 36VDC or 24VAC supplies, ie redundant power inputs
- ▲ Operates over the temperature range of -20 to +75°C
- ▲ OSDview Lite Network Management System standard
- ▲ OSDWeb Web browser GUI included
- ▲ Compatible with the OSD2244, OSD2251 and OSD2254 Gigabit Ethernet switches
- ▲ DIN rail mounting
- ▲ SFP module sold separately



#### TYPICAL SYSTEM DESIGN



#### ORDERING INFORMATION

OSD2258	Industrial 10-port Redundant Ring Gigabit Ethernet Switch
OSD2258P	PoE version of the OSD2258 See separate datasheet 1022258PXX
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
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

## 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)
---------------------	-------------------------------------------------------------------------------------------------------------------------

## PHYSICAL

Operating Temperature Range	-20 to +75°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	+10 to +36VDC or 22 to 28VAC @ 10VA
Power Connector	4 way 5.08mm terminal block
Alarm Connector	4 way 3.5mm terminal block
Indicators	8x Copper Speed/Activity/Link on RJ45s 8x Copper Duplex on RJ45s 2x Activity/Link on SFPs 1x Power/Temperature Alarm 1x Initialise/Ring/Bus
Dimensions of Module (mm)	43W x 91D x 190H
Weight of Module (kg)	0.78