OSD2138 UNMANAGED 3 PORT SWITCH WITH 2 DUPLEX CONTACT CLOSURE CHANNELS
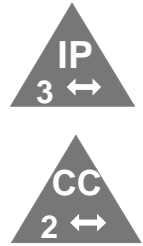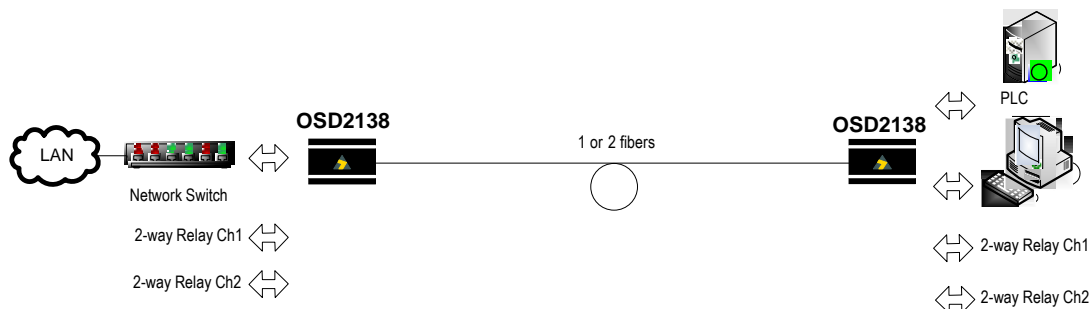

APPLICATIONS

▲ Any network utilising a mix of copper and fiber

▲ Industrial IP communications

▲ Gigabit backbone networks

▲ IP cameras with tamper alarms and/or washer/wiper controls

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 three ports: two fixed copper ports for 10/100/1000Base-T and one SFP port which may be either copper or fiber

▲ Supports network traffic of 1000Mbps

▲ Duplex transmission of two alarm signals

▲ Can be used with either singlemode or multimode fiber over a variety of link budgets

▲ Available for operation over 1 or 2 fibers

▲ Automatic TP setup: no need for crossover cables

▲ Auto TP sensing of half or full duplex operation in 10/100 mode

▲ Powered by non-critical $12V_{DC}$ or $24V_{AC}$

▲ Operates over the temperature range of -20 to +75ºC

▲ SFP modules sold separately

▲ Dual power supply inputs

TYPICAL SYSTEM DESIGN

ORDERING INFORMATION

OSD2138	10/100/1000Base –T to 100Base-Fx/1000Base-Lx/Sx unmanaged 3 port switch + 2 duplex contact closure channels
Option M	Standalone module version
SFP Module	See OSD SFP datasheet #102100006

SPECIFICATIONS

ELECTRICAL

Electrical Data Interface	IEEE802.3i/802.3u/802.3ab, 10/100/1000Base-T Ethernet
Electrical Data Connector	RJ45 for fixed copper ports (Ports 1 and 2) and for copper SFP module
Electrical Data rates	10, 100, 1000Mbps with energy detect, auto negotiate, auto MDIX
Operating Modes	Half or full duplex for 10/100 Full duplex for 1000 Pause frames based flow control
Contact Closure Transmission	Buffered input, optically isolated MOSFET output (120mA @ 350V(max))
Contact Closure Connector	8 way terminal block

OPTICAL

Optical Port Connector	SFP
Various SFP Options Possible	Short haul, long haul, single fiber operation, etc. Please consult OSD datasheet #102100006 or contact OSD

PHYSICAL

Operating Temperature Range	-20 to +75ºC
Relative Humidity	0 to 95% non-condensing
Power Requirements	+8V to +35VDC or 22 to 28VAC @ 8VA (with 1 SFP loaded)
Power Connector	6 way terminal block
Indicators	1x Power 2x Copper Speed/Activity/Link on 2 x RJ45 2x Copper Duplex on 2x RJ45 1x SFP Speed/Activity/Link for copper or fiber 1x SFP port speed
Dimensions of Module (mm)	114W x 173D x 31H (module)
Weight of Module (kg)	0.5
Dimensions of Card (mm)	25W x 208D x 100H (card)
Weight of Card (kg)	0.3
Chassis Current Consumption (CCC)	0.80 Amp when fully optioned