OPTICAL SYSTEMS DESIGN

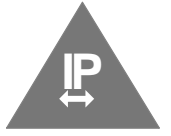# OSD2790 MANAGED 24-PORT 10/100/1000BASE AND 4-PORT GIGABIT ETHERNET SWITCH

APPLICATIONS
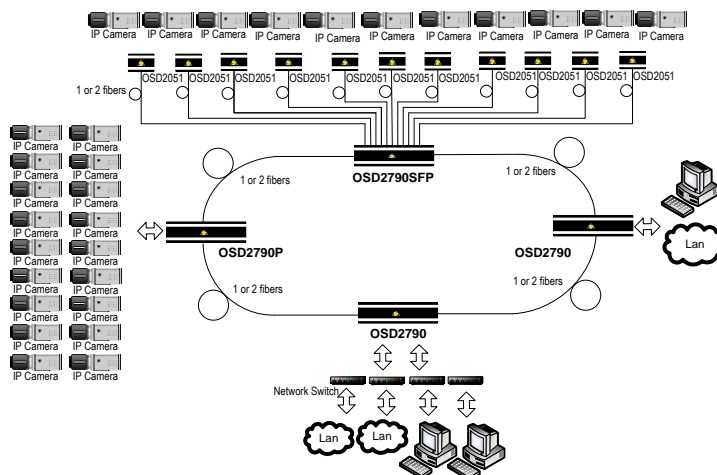
▲   Any network utilising a mix of copper and fiber

▲   Industrial IP communications

▲   Self-healing Gigabit Ethernet backbone networks

▲   Gigabit Combo ports: copper (RJ45) or fiber (SFP)

FEATURES AND BENEFITS

▲   Complies with IEEE802.3I/802.3u/802.3ab 10/100/1000Base-T, IEEE802.3z 1000Base-LX standards.

▲   Supports RSTP/MSTP/STP for Ethernet redundancy

▲   IP Multicast Filtering through IGMP Snooping V1, V2 & V3

▲   Supports port-based VLAN and IEEE802.1Q VLAN Tagging and GVRP

▲   IEEE802.1p QoS with four priority queues

▲   MAC-based trunking with automatic link fail-over

▲   RS-232 console, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management

▲   Full wire-speed forwarding rate

▲   Supports IEEE802.1x Security

▲   Bandwidth Rate Control

▲   Per-port programmable MAC address locking

▲   Up to 24 Static Secure MAC addresses per port

▲   Port mirroring

▲   Supports NTP

▲   SFP modules sold separately

▲   1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX

▲   Operates over the temperature range of -20 to +65ºC

▲   Optional IEEE 802.3af/at PoE capability

Self-healing Ring Configuration

ORDERING INFORMATION

OSD2790	Managed 24-Port 10/100/1000Base-T + 4-Port Gigabit RJ45/SFP Combo Ethernet Switch
OSD2790SFP	24-Port 100Base/1000Base SFP + 4-Port Gigabit RJ45/SFP Combo Ethernet Switch
OSD2790P	24-Port PoE+ 10/100/1000Base + 4-Port Gigabit RJ45/SFP Combo Ethernet Switch
Option DP	90 - 264VAC Redundant (AC Inlet)
SFP Modules	See OSD SFP datasheets #1021000X for 100Base-X and #10210000X for 1000Base-X

OPTICAL SYSTEMS DESIGN PTY LTD   7/1 Vuko Pl. Warriewood N.S.W. Australia 2102
Telephone: + 61 2 9913 8540 Fax: + 61 2 9913 8735 Website: www.osd.com.au E-mail: sales@osd.com.au

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SPECIFICATIONS

Electrical Data Interface	IEEE802.3i/802.3u/802.3ab, 10/100/1000Base-T Ethernet
Electrical Data Connector	RJ45 on the fixed copper ports for SFP modules
Configuration Connector	DB9
Optical Data Interface	IEEE802.3z 1000Base-Lx, 1000Base-Sx, 1000Base-Zx IEEE802.3u 100Base-Fx
OSD2790P PoE	IEEE802.3af: 47 to 55VDC @ 0.35Amp maximum IEEE802.3at: 47 to 55VDC @ 0.7Amp maximum
Optical Connector	LC or SC
SFP Port Options	100Base-Fx, 1000Base-Lx, 1000Base-Zx
Operating Mode	Half or full duplex for 10/100 Full duplex for 1000 Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control

See OSD SFP datasheet #10210000X and 1021000X for full details on available optical SFP modules

INDICATORS

OSD2790/OSD2790SFP		OSD2790P	
1 x	Power	1 x	Power
24 x	10/100/1000Base-T: Link/ Activity	24 x	10/100/1000Base-T: Link/ Activity
24 x	10/100/1000Base-T: Speed	24 x	10/100/1000Base-T: Speed
4 x	1000Base-X: Link/ Activity	24 x	10/100/1000Base-T: PoE
4 x	1000Base-X: Speed	4 x	1000Base-X: Link/ Activity
		4 x	1000Base-X: Speed

PHYSICAL

Operating Temperature Range	-20°C to +65°C
Relative Humidity	5 to 95% non-condensing
Power Requirements	90 - 264VAC @ 45VA Max
OSD2790P Power Requirements	47-57VDC @ 45VA Max (without PoE)
OSD2790P PoE Power Budget	370W maximum
Dimensions of Module (mm)	442W x 250D x 44H
Weight (kg)	6.2

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