OSD2790SFP MANAGED ETHERNET SWITCH
24 100/1000M SFP AND 4 x 1G TRUNK/UPLINK SFP

APPLICATIONS

▲ Managed L2/3 switch for small to medium-sized Enterprise networks requiring very high throughput

▲ Redundant and self-healing network.

▲ Ideal for star configured all optical networks

▲ Industrial IP communications for rugged environments

▲ Available with either DC or AC powering. The DC version has dual redundant inputs as standard whereas redundant AC powering is optional for the AC version

FEATURES AND BENEFITS

General
- L2/3 managed 1G Ethernet switch
- Supports RSTP/MRSTP/STP for Ethernet redundancy
- CPU Memory 128MB
- User-friendly web browser based GUI
- CLI and SNMP management

Port Control
- Port speed, duplex mode, and flow control
- Port status -- link monitoring
- Port statistics -- MIB counters

QoS
- Traffic classes (1, 2, or 4, 8 active priorities)
- Port default priority and user assigned priority
- Scheduler priority
- QoS control
- Storm control

L2 Switching
- IEEE 802.1D Bridge with auto MAC learning/aging
- IEEE 802.1Q static VLAN
- Private VLAN (static)
- 80Gbps switching backplane
- IEEE 802.1Q-2005 – Rapid spanning tree (RSTP)
- IEEE 802.3ad Link aggregation, static and LACP
- DHCP client
- Port mirroring

Security
- Port-based 802.1X
- Web and CLI authentication and authorization

OAM
- IEEE 802.3ah Link OAM

Multicasting
- IGMP Snooping (IGMPv2, IGMPv3)
- Multicast Listener Discovery (MLD) v1 and v2

Power Saving
- Ethernet energy efficient
  – Link down power savings
  – Scales power based on cable length
- Thermal protection

Management

- HTTP server
- Web management
- CLI console port
- Management access filtering
- System log
- Software download through web
- SNMPv1/v2c/v3Agent
- IEEE 802.1AB-2005 Link Layer Discovery, LLDP
- Configuration download or upload
- RFC 1213 MIB II
- RFC 3621 LLDP-MED power
- RFC 3635 Ethernet-like MIB
- RFC 4188 Bridge MIB
- Private MIB framework
- IEEE 802.1 MSTP MIB
- IEEE 802.1AB LLDP MIB

ORDERING INFORMATION

OSD2790SFPDC	Managed 24 100/1000SFP + 4 1G Trunk SFP with dual redundant DC powering
OSD2790SFPAC	Managed 24 100/1000SFP + 4 1G Trunk SFP with AC powering
OSD2790SFPDAC	Managed 24 100/1000SFP + 4 1G Trunk SFP with dual redundant AC powering
RJ45 based unit	See Datasheet 1022790xx
SFP Module	See OSD datasheets #1021000XX & #102100XX for 1G & 100M SFPs

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SPECIFICATIONS

OPTICAL

Optical Data Interface	IEEE802.3z 1000Base-Lx, 1000Base-Sx IEEE802.3u 100Base-Fx
Operating Mode	Full duplex for 100M/1G Store-and-Forward IEEE802.3x full-duplex flow control
Number of Optical Port Connectors	SFP x 28: 24 for 100/1000SFPs Port #1 - 24, 4 for the 1G uplink/trunk ports
Optical Port Connector Type	SFP (LC or SC)
SFP Options	Short haul, long haul, single fiber operation, etc. Please see OSD Datasheets #102100XX and #1021000XX for 100Mbps and 1Gbps SFP optical modules

ELECTRICAL

Indicators	28 x 100M/1G Link/ Activity/Speed 2 x Power 1 x Status
Configuration Connector	Mini USB console port
Alarms	Four: two for Power Supply status two user definable via the GUI as specified in the User Manual
Alarm Interface	Four opto-isolated relay drivers via two 4-way 3.5mm terminal blocks
Control	System reset

PHYSICAL

Operating Temperature Range	-20°C to +75°C for OSD2790SFPDC -20°C to +65°C for OSD2790SFPAC and OSD2790SFPDAC
Relative Humidity	5 to 95% non-condensing
Power Requirements	+10 to +36VDC @ 40VA Max for DC version 90 - 264VAC @ 50VA Max for standard single AC version 90 - 264VAC @ 55VA Max for optional redundant AC version
Power Connector	4 way 5.08mm terminal block for DC powered version One IEC power inlet module for the standard AC powered version Two IEC power inlet modules for the optional redundant AC powered version
Dimensions of Enclosure (mm)	443W x 300D x 44H

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