

OSD2824 MANAGED 24 x 10/100/1000BASE-T (RJ45) AND 4 x10G (SFP+) ETHERNET SWITCH



APPLICATIONS

- ▲ Stackable managed L2 switch for small to medium-sized Enterprise networks requiring high throughput
- ▲ Redundant and self-healing network.
- ▲ Industrial IP communications for rugged environments



FEATURES AND BENEFITS

General

- L2 managed Ethernet switch
- Up to 16 units stacking for ring or chain topology, shortest path forwarding, and master re-elect performance
- 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
- Port cable diagnostics

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)
- Port isolation (static)
- 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

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

Stacking

- Up to 16 units for a Ring or Chain Topology
- SPOM (single point of management) – One IP address for whole stacking network
 - Proprietary stacking protocol with shortest path forwarding function
 - Master re-election

Management

- Stack IP address
- HTTP server
- Web with stack 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

OSD2824 Managed 24 10/100/1000Base-T + 4 10G SFP+
SFP+ Module See OSD SFP+ datasheet #10210GB01



SPECIFICATIONS

Copper Data Interface	IEEE802.3i, 802.3u, 802.3ab for 10, 100 or 1000Mbps Base-T Ethernet
Optical Data Interface	IEEE802.3ae for 10GBASE-SR (multimode: 300m), 10GBASE-LR (singlemode: 10km), 10GBASE_ER (singlemode: 40km), 10GBASE_ZR (singlemode: 80km)
Copper Port Connector	RJ45
Optical Port Connector	LC
Console Connector	DB9 male connector, 115.2k, 8N1
Operating Mode	Half or full duplex for 10/100 Full duplex for 1G and 10G Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Standard Transmitter Wavelength	1310 \pm 30nm
Standard Transmit Optical Power	-7 to 0dBm (other powers at 1310 and 1550nm are optional)
Receiver Sensitivity	<-14dBm
Standard Optical Link Budget	>7dB: >10km on singlemode fiber @ 1310nm
Optional Optical Link Budgets	>14dB: >40km on singlemode (1550nm EML laser, PIN receiver) >23dB: >80km on singlemode (1550nm EML laser, APD receiver)

See OSD SFP datasheet #10210GB01 for full details of available optical SFP+ modules

INDICATORS

1 x	Power
24 x	10/100/1000Base-T, 100Base-Fx , 1000Base-X: Link/ Activity
4 x	10G Link/ Activity
2 x	7-seg LEDs for stacking/ring status
1 x	Master indicator

PHYSICAL

Operating Temperature Range	-25°C to +65°C
Relative Humidity	5 to 95% non-condensing
Power Requirements	90 - 264VAC @ 100VA Max
Dimensions of Module (mm)	442W x 200D x 65H
Weight (kg)	5.3