



SM12DP2XA

Fiber Aggregation Switch



MANAGED GIGABIT ETHERNET FIBER SWITCH

(12) 100/1000Base-X SFP Slots + (2) 1G/10GBase-X SFP+ Slots + (2) 10/100/1000Base-T RJ-45 Ports

This switch is a next generation fully managed fiber switch with 68Gbps switching capacity. It provides (12) 100/1000 dual speed SFP slots, (2) 1G/10G SFP+ slots and (2) additional Gigabit RJ-45 ports.

Features

Benefits

100/1000 dual speed SFP slots

Provides network operators with a flexible solution for delivering extraordinary Ethernet Services over a wide range of fiber facilities

AC/DC Dual Power Supply

Redundant power input to ensure network with high reliability and high availability

Compact form factor

The switch can be used in a space or wiring constrained cabinets or other constrained spaces

Wide operating temperature

Ensures reliable fiber connections in extreme temperatures

1G/10G fiber uplink

Accommodates business growth and increased traffic, such as aggregate upstream gigabit traffic loads from high speed wireless access points

Embedded Device Management System

A unique set of value-added features that provide the network operators with lower overall cost, less downtime and easier management of the entire network

DMI information

Allows the user to monitor real-time parameters of the fiber optic transceivers such as input/out power, temperature, current and voltage

Applications:

- Fiber Aggregation
- IP Surveillance
- Business Ethernet

Markets:



Enterprise



Smart Buildings



Retail



Security and Surveillance



Business Ethernet



Specifications

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3z
- IEEE 802.3ae
- IEEE 802.3x
- IEEE 802.3ad
- IEEE 802.1D
- IEEE 802.1w
- IEEE 802.1s
- IEEE 802.1Q
- IEEE 802.1p
- IEEE 802.1ad
- IEEE 802.1AB
- IEEE 802.1X
- IEEE 802.3az

Connectors

- (12) 100/1000 SFP slots
- (2) 1G/10G SFP+ slots
- (2) 10/100/1000 RJ-45 ports

Protocols

- CSMA/CD

Technology

- Store-and-Forward switching architecture

MAC Address

- 32K MAC address table

Backplane

- 68 Gbps

Dimensions

- Width: 11.02" [280 mm]
- Depth: 5.28" [134 mm]
- Height: 1.73" [44 mm]

Power Input

- 100-240VAC (on the front) or 24/48VDC

Power Consumption

- 24 Watts (max)

Environment

- Operating: -20°C to +60°C
- Humidity: 10% to 90% (non-condensing)

Weight

- 2.2 lbs. [1.0 kg]

Certifications

- FCC Class A, CE
- Safety: UL Listed, IEC62368-1/EN62368-1

Warranty

- Lifetime

Features

- IPv6 Management
- Support Jumbo Frame up to 9K bytes
- Authentication – RADIUS, TACACS+
- IEEE 802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions
- DHCP Relay, DHCP Option 82, DHCP Snooping, DHCP Server
- L2/L3/L4 ACLs Support MAC, VLAN ID or IP, protocol, port, DSCP/IP precedence/TCP,UDP, Ether Type, ICMP, TCP flag
- LLDP (Link Layer Discovery Protocol)
- IEEE 802.3az Energy Efficiency
- IP Source Guard, Port Security
- Port Mirroring
- Firmware Update through TFTP/HTTP and console
- Syslog

Software Features

- Management: Web Management, SNMP V1/V2c/V3, SSH, CLI
- Port Trunk: Supports IEEE 802.3ad port trunk with link aggregation control protocol (LACP) and static trunk
- Multicast: Support IGMP Snooping V1/V2/V3, IGMP Proxy, IGMP Querier, MVR, and MLD Snooping V1/V2
- Spanning Tree: Supports IEEE 802.1s MSTP, IEEE 802.1w RSTP and IEEE 802.1D STP Compliant
- Rapid Ring
- VLAN: Port Based VLAN, IEEE 802.1Q tag-based, up to 4k VLAN entries, QinQ, MAC-based VLAN, Private VLAN, Voice VLANs and Management VLAN
- Quality of Service: Supports 8 hardware queues
 - Scheduling: Strict priority and WRR, Queue assignment based DSCP and class of service
 - Classification: Port based, IEEE 802.1p VLAN priority based, IPv4/IPv6 precedence/DSCP based, DiffServ, Classification and re-marking
 - Rate Limiting: Ingress policer, Egress shaping, rate control and per port
- IPv4/IPv6 Static Routing
- Device Management System: Graphic Monitoring, Grouping, Traffic Monitoring

Ordering Information

Part Number	Description
SM12DP2XA	(12) 100/1000Base-X SFP slots + (2) 1G/10GBase-X SFP+ slots + (2) 10/100/1000Base-T RJ-45 ports (includes 19" rack mount brackets)

Optional Accessories (sold separately)
SFP Modules

Power Supplies (sold separately)	Description
25130	Input: 88 -264VDC, 120-370VDC Output: 48VDC, 39.8 Watts, -20°C to +70°C

Power Cord Included

To order the corresponding country specific power cord, add the extension from the list below to the end of the SKU; Ex: SM12DP2XA-**xx**

-xx = Country Code

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|---------------------|----------------------|
| -NA = North America | -LA = Latin America |
| -EU = Europe | -UK = United Kingdom |
| -SA = South Africa | -JP = Japan |
| -OZ = Australia | -BR = Brazil |