transition networks managed switch

SM24-1000SFP-AH

Layer 2 Gigabit Metro Ethernet Switch

Features:

▸ **OAM:**
802.1ag Service OAM
802.3ah Link OAM

▸ **Auto-negotiation:**
for port speed and duplex mode

▸ **Flow Control:**
IEEE 802.3x & Back Pressure

▸ **Spanning Tree Protocol:**
IEEE 802.1D Spanning Tree Protocol (STP), IEEE 802.1w Rapid Spanning Tree Protocol (RSTP), IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

▸ **VLANs:**
255 IEEE 802.1Q VLANs, Port-based VLAN, Protocol VLAN, Private VLAN, GVRP, IEEE 802.1ad Q-in-Q

▸ **Link Aggregation:**
Static Trunk, IEEE 802.3ad LACP, Load Balancing Trunk groups: 32 Trunk links: 2~8 for Gigabit Ethernet port Trunk links: 2~4 for 10G Ethernet port

▸ **IGMP:**
IGMP v1, v2, v3, 255 IGMP Groups, MVR

▸ **QoS:**
8 Priority Queues, Priority Queues Scheduling, Scheme, WRR, Strict Priority, IEEE 802.1p, IP Precedence/DSCP,, TCP/UDP port number

▸ **DiffServ:**
Rate Limiting, Ingress/Egress, Per Port COS

▸ **Switch Management:**
CLI via console port or Telnet, Web management SNMP v1, v2c, v3

▸ **Firmware & Configuration:**
Dual firmware configuration files, Firmware Configuration upgrade via TFTP/FTP/X modem server

▸ **RMON:**
(groups 1,2,3 and 9)

▸ **SNTP**

▸ **Port Mirroring**

▸ **Event/Error/System Log**

▸ **Security:**
Port Security, IP Source Guard, DHCP Snooping, IEEE 802.1X, Port-based

▸ **RADIUS authentication**

▸ **Encryption: MD5, TLS, TTLS**

▸ **TACACS+ authentication**

▸ **HTTPS/SSH**

▸ **Access Control List (ACL):**
IP-based, MAC-based, IP/MAC-based, VLAN, TCP/UDP port

▸ **Storm Control:**
Broadcast, Multicast, Unknown Unicast

Specifications

Standards Compliance	IEEE 802.1D Spanning Tree Protocol and traffic priorities IEEE 802.1p Priority tags IEEE 802.1Q VLAN IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1v Protocol-based VLANs IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1X Port Authentication IEEE 802.1ag Service OAM IEEE 802.3ah Link OAM Ethernet, Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet Full-duplex flow control Link Aggregation Control Protocol IEEE 802.3ac VLAN tagging DHCP Client (RFC 1541) HTTPS IGMP (RFC 1112) IGMPv2 (RFC 2236)
Physical Ports	(24) Gigabit SFP ports (2) 10 G XFP ports (2) expansion slots for modules (1) RJ-45 craft port (1) RS-232 console port (1) dB-15 port for alarm I/P and O/P
MAC Address	32K MAC address table
Jumbo Packet Support	9K
Switching Capacity	128 Gbps
LEDs	Power & Port Status
Power Consumption	100 Watts maximum
Power Requirement	AC Input: 100~240V, 50~60 Hz, , Output: +12 VDC DC Input: +18 VDC~+36 VDC, -36 VDC~-72 VDC, Output: +12 VDC
Temperature	-20°C to 60°C (Standard Operating) -40°C to 70°C (Non-Operating)
Operating Humidity	10% to 90% (non-condensing)
Dimensions	**Height:** 2.6" [67 mm] **Width:** 17.0" [436 mm] **Depth:** 10.0" [253 mm] (1.5RU)
Shipping Weight	11lb. (5kg)
Certifications	FCC Class A, CE Mark, UL
MTBF	80,000 hrs (min), at 40°C degree 150,000 hrs (min) at 25°C degree

Ordering Information

The SM24-1000SFP-AH Gigabit Metro Ethernet Switch provides a flexible platform to enable carrier-class access technology through easy-to-maintain hardware architecture and advanced management software features. With all front panel access, field-replaceable fan tray, and redundant power supply design, SM24-1000SFP-AH eases the necessary field installation. Advanced management software enables remote trouble-shooting and management. With advanced security features and flexible, fine-grained QoS capability, SM24-1000SFP-AH allows service providers to deliver secure triple-play services. The dual 10G XFP Ethernet ports provide redundant fiber uplink connections to the edge of the optical core networks. The SM24-1000SFP-AH also includes 2 expansion slots to accommodate extra dual 10G XFP ports.

The SM24-1000SFP-AH Gigabit Metro Ethernet Switch is part of a series of purpose-built next-generation switches, designed by Transition Networks, in order to fulfill the demands of converged metro access networks.

TRANSITION NETWORKS®