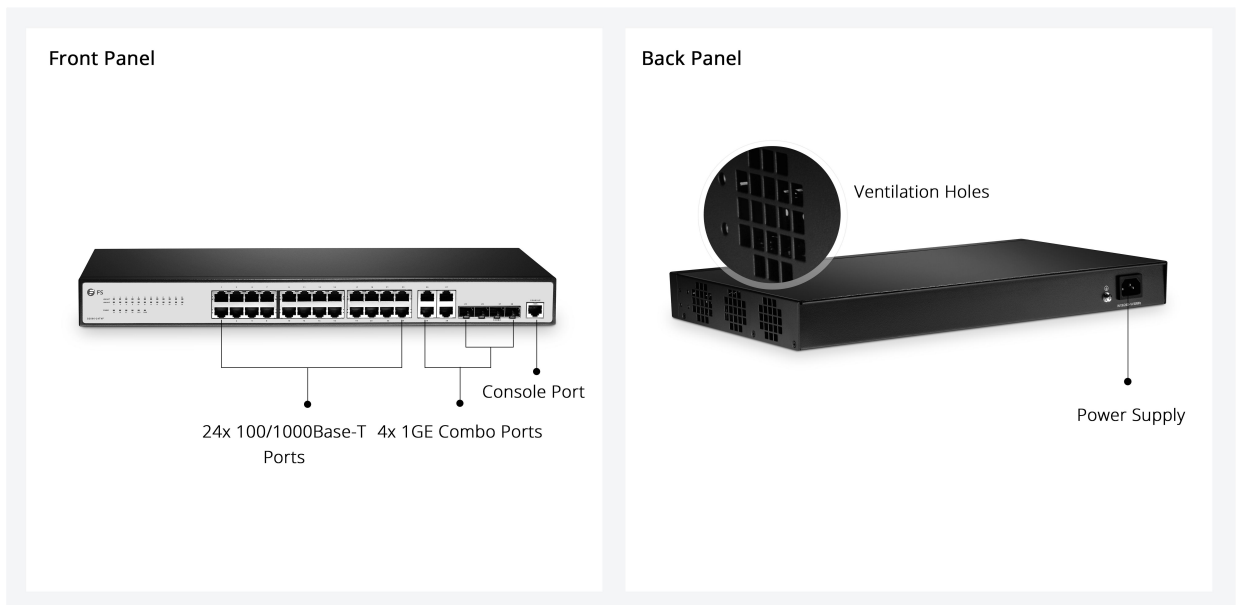**FS.COM**

Data Center & Cloud Computing

DATASHEET

S2800-24T4F
(24x RJ45 auto-sensing+4x 1GE Combo)

Fanless 1GbE Access Layer Switch for SMB

Overview

FS S2800-24T4F is L2 full-Gigabit switch, covering all kinds of enterprise customers. S2800-24T4F provides 28*10/100/1000Base-T or 1000Base-X SFP for the demand of cost-effective Gigabit access/aggregation. It adopts high performance processor to provide full speed forwarding and line-dormant capacity to offer customs multitudinous service features. Moreover, S2800-24T4F supports multiple configuration modes (such as SNMP, Telnet, Web, Console, etc) to make it easy for network management and maintenance. Last but not least, S2800-24T4F offers the most flexible port combination form to facilitate user operations.

Front Panel

Back Panel

Ventilation Holes

Console Port

24x 100/1000Base-T Ports   4x 1GE Combo Ports

Power Supply

Primary Product Highlights

I.   Layer 2 Full Wire Speed Gigabit Forwarding Capability

➢ Up to 48Gbps backplane bandwidth

➢ Up to 42Mpps packet forwarding rate

➢ ACL / binding / attack protection and other functions do not affect performance

II.   Rich Two-tier Business Capability

➢ 512 multicast groups, IGMP SnoopingV1 / V2 / V3

➢ 8 priority queues, SP / WRR / SP + WRR

➢ Port-based QinQUp to 42Mpps packet forwarding rate

➢ DHCP snooping and IP Source Guard

III. Function Optimization for WEB Configuration of Internet Bar

➢ Automatic and Manual IP+VLAN+MAC+Port binding

➢ Smart port, set up server / application business optimization port

➢ Diskless optimization, network splitter configuration and boot optimization

➢ Game acceleration, built-in common games and customizable acceleration of game port

IV. Perfect Management and Maintenance

➢ Web management interface optimized for enterprise users

➢ Support SNMP, Telnet, cluster

➢ Looback port loopback detection, LLDP neighbor detection

➢ Real-time statistics of occupancy / traffic based on Telnet port

Specification

Ports	S2800-24T4F
Gigabit RJ45 Ports	24
1GE Combo Ports	4
General	
CPU	MIPS
Switching Chip	RTL8382
Operating System	Based on Vxworks
Switching Capacity	56Gbps
Forwarding Rate	41.7Mpps

DDR Memory	128M
Flash Memory	16MB

Power Requirements

Power Supply	AC: 100~240V, 50/60Hz
Power Consumption	≤20W

Enviromental

Working Temperature	-10°C~50°C
Storage Temperature	-40°C~70°C
Relative Humidity	10%~90%, non-condensing

Physical

Dimensions (Width x Depth x Height)	440x230x44mm
Weight (Full-Loaded)	≤3kg

Product Features and Benifits

Features	Benifits
L2 Features	
MAC	➤ 8K MAC ➤ MAC Black Hole ➤ Port MAC Limit
VLAN	➤ 4K VLAN entries ➤ Port QinQ ➤ PVLAN to realize port isolation and saving public-vlan resources ➤ GVRP
Spanning Tree	➤ STP/RSTP/MSTP ➤ Remote loop detecting
Port	➤ Bi-directional bandwidth control ➤ Static link aggregation and LACP(Link Aggregation Control Protocol) ➤ Port mirroring

Security Feature

User's Security	- Anti-ARP-spoofing - Anti-ARP-flooding - IP Source Guard create IP+VLAN+MAC+Port binding - Port Isolation - MAC address binding to the port and MAC address filtering - IEEE 802.1x and AAA/Radius authentication
Device Security	- Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP - Detection, worm and Msblaster worm attack - SSHv2 Secure Shell - SNMP v3 encrypted management - Security IP login through Telnet - Hierarchical management and password protection of users
Network Maintenance	- Dynamic ARP table-based binding - IP+VLAN+MAC+Port binding - L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet - Port-based broadcast/multicast suppression and auto-shutdown risk port - DHCP Option82 and PPPoE+ upload user's physical location

Service Features

ACL	270 standard and extended ACLs - Time Range ACL - Flow classification and flow definition based on source/destination MAC address, VLAN, 802.1p, ToS, DiffServ, source/destination IP(IPv4/IPv6) address, TCP/UDP port number, protocol type, etc - Packet filtration of L2~L7 deep to 80 bytes of IP packet head - ACL flexible control in the phases of vlan-lookup, ingress, egress
QoS	- Rate-limit to packet sending/receiving speed of port or self-defined flow - Packet mirror and redirection of interface and self-defined flow - Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark

Service Features

QoS	➢ Super queue scheduler based on port or self-defined flow. Each port flow supports 8 priority queues and scheduler of SP, WRR, SP+WRR, etc.
Multicast	➢ IGMPv1/v2/v3 Snooping ➢ IGMP Filter ➢ MVR and cross VLAN multicast copy ➢ IGMP Fast leave ➢ IGMP Proxy

Reliability

Loop Protection	➢ EAPS¥ERPS¥PVST and GERP (recover-time <50ms) ➢ Loopback-detection
Link Protection	➢ FlexLink (recover-time <50ms) ➢ RSTP/MSTP (recover-time <1s) ➢ LACP (recover-time <10ms)
Device Protection	➢ Double fault-tolerant backup of host program and configuration files

Maintenance

Network Maintenance	➢ Port real-time, utilization and transmit/receive statistic based on Telnet ➢ LLDP ➢ 802.3ah Ethernet OAM ➢ RFC 3164 BSD syslog Protocol ➢ Ping and Traceroute
Device Management	➢ CLI, Console port, Telnet and WEB ➢ SNMPv1/v2/v3 ➢ RMON (Remote Monitoring)1,2,3,9 groups MIB ➢ NTP ➢ NGBNView

United Kingdom   Russia

Germany

United States

China

Singapore

Australia

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