



DATASHEET **S3800 Series Ethernet Switches** 1GE Access and 10G Uplink Network Switches

> REV.1.0 2017

Overview

FS S3800 series are designed for class-carrier GE access and 10G uplink network, they cover all kinds of enterprise/ operators customer.

S3800 Series provide 20/24/48* 10/100/1000Base-T, 1000Base-X SFP or 10G SPF+ for the demand of cost-effective Gigabit access /aggregation. It adopts high performance processor to provide full speed forwarding and line-dormant capacity to coordinate with NGGN unified software. It supports strong ACL and IP+MAC+ports binding etc.

Configurations

Part Number	Description
S3800-24F4S	 20x 100/1000 Base-X SFP Ports 4x 10GE SFP+ Ports 4x 1GE Combo Ports
S3800-24T4S	 24x 10/100/1000 Base-T Ports 4x 10GE SFP+ Ports
S3800-48T4S	 48x 10/100/1000 Base-T Ports 4x 10GE SFP+ Ports

Primary Product Highlights

- I. Carrier-class Equipment Stability and Network Resiliency
- Adopt NGBN autonomous intellectual property operating system with large- scale application in global network of operators
- Support multiple link redundancy and network redundancy protocols such as VRRP
 / GARP / MSTP / smart link

II. Perfect Security Mechanism

Use the hardware - based packet - by - packet forwarding mechanism, the feature packets are effectively detected and filtered

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- Support various protection functions such as DDoS, CPU overcurrent protection and VRRP
- The system vendors can choose the image with features for today and have the option for smoothly upgrading in the future
- Support DHCP snooping / IP source Guard / 802.1X etc. Rich security features can effectively protect the user, equipment and network availability
- Support link protection such as BFD, FlexLink, dynamic link aggregation, and Ethernet ring network

III. Rich Business Characteristics

- Support DHCP Server and DHCP Relay
- > Support L2 Tunneling transparent encapsulation network edge service protocol
- ➤ Support Ethernet OAM protocol

IV. Strong QoS Capability

- Support 2Rate3Color-controlled traffic management policies
- > Support CAR to implement precise rate limits based on ports and streams
- Support various traffic classification and QoS flow control to guarantee the transmission of high priority packets
- Support SP / WRR and other priority algorithms to protect the transmission of multimedia services

Specification

	S3800-24F4S	S3800-24T4S	S3800-48T4S
Ports			
Gigabit RJ45 Ports		24	48
1GE SFP Ports	20		
10GE SFP+ Ports	4	4	4

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	S3800-24F4S	S3800-24T4S	S3800-48T4S
Ports			
Combo Ports	4 (RJ45/SFP)		
Control Port	1	1	1
General			
CPU		ARM	
Switching Chip	BCM53347	BCM53346	BCM53346
Operating System		Based on Vxworks	5
Switching Capacity	128Gbps	128Gbps	176Gbps
Forwarding Rate	95Mpps	95Mpps	130Mpps
SDRAM Memory	512MB		
Flash Memory	16MB		
Power Requirements			
Power Supply	AC: 100~240V, 50/60Hz		
Power Consumption (Full-loaded)	≤60W	≤40W	≤60W
Power Consumption (Idle)	≤20W	≤13W	≤25W
Enviromental			
Working Temperature	-20° C~55° C		
Storage Temperature	-40° C~70° C		
Relative Humidity	10% \sim 90%, non-condensing		
Physical			
Dimensions (W x D x H)	440x280x44mm	440x220x44mm	440x300x44mm
Weight (Full-Loaded)	3kg	3.5kg	Зkg

Product Features and Benifits

Features	Benifits	
L2 Features		
MAC	 16K MAC address MAC Black Hole Port MAC Limit 	
VLAN	 4K VLAN entries Port-based/MAC-based/IP subnet-based VLAN Port-based QinQ and Selective QinQ (StackVLAN) VLAN Swap and VLAN Remark PVLAN to realize port isolation and saving public-vlan resources GVRP 	
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 instances (MSTP) Remote loop detecting 	
Port	 Bidirectional bandwidth control, configure entry/exit and the smallest 64K control particle Static and LACP Port- mirroring of 1:1 or N:1 	
Security Features		
User's security	 ARP anti-Flooding, configure ARP traffic safety threshold and inhibition ARP packet IP+MAC+port+VLAN binding manually Port Isolation, configure hardware isolation of each port Bind MAC address to port and MAC address filtration on port IEEE 802.1x and AAA/Radius authentication 	
Device Security	 Anti-DOS attack SSHv2 Secure Shell SNMP v3 encryption Telnet based on Security IP Prevent unauthorized user 	
Network security	 One button binding based on dynamic ARP table Manual binding parameter of IP 、VLAN ID、MAC and port etc. L2-L7 ACL flow filtration Auto-shutdown port in storm Update user's location through DHCP Option82 and PPP 	

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Features	Benifits		
Service Features			
ACL	 Activate standard and extended ACL Time Range ACL strategy Flow classification based on SMAC, DMAC, VLAN, SIP, DIP, IP (IPv4/IPv6), TCP/UDP port num, protocol type etc. Packet filtration of L2~L7 IP header with 80bytes 		
QoS	 Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow Packet mirror and redirection of interface and self-defined flow Supports Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark Super queue scheduler based on port and self-defined flow. Each port/ flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR 		
Multicast	 IGMPv1/v2/v3 Snooping IGMP Filter MVR multicast VLAN register and cross VLAN multicast replication IGMP Fast leave IGMP Proxy 		
IP routing			
IPv4	 ARP Proxy DHCP Relay DHCP Server Static route 		
Reliability			
Loop Protection	 EAPS and GERP Loopback-detection 		
Link Protection	 FlexLink RSTP/MSTP LACP BFD 		
Device Protection	Backup of host program and configuration files		
Maintenance			
Network Maintenance	Port real-time, utilization and transmit/receive statistic based on CLI		

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Features	Benifits	
Maintenance		
Network Maintenance	 LLDP 802.3ah Ethernet OAM Syslog and 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 group MIB NTP GN.Link II Server NGBNView network Management 	



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