

FiberHome S6800 Series 10GE Switch

FiberHome S6800 series switches are next-generation 10G/100G routing switches with high-performance, high-security and multi-service. S6800 series switches has advanced hardware design with hot-swapped power redundancy. It is for IP MAN convergence layer and large-scale enterprise zone or the core of the network layer

PRODUCT APPEARANCE

FiberHome S6800 Series configurations listed as below:



S6800-48F6Q



S6800-48F4C2Q



S6800-24F-X

48×10GE SFP+

6×40GE QSFP+

2×hot-swapped fans

2 hot swappable power supplies

48×10GE SFP+

2×40GE QSFP+

4×40/100GE QSFP28

2×hot-swapped fans

2 hot swappable power supplies

4×GE Combo

24×10GE SFP+

2 Redundant fixed power supplies

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PRODUCT FEATURES & BENEFITS

High Reliability

The S6800 provides enhanced Ethernet reliability technologies such as STP/RSTP/MSTP, R-link at millisecond-level protection switchover, as well as LB(loopback check) to ensure link-level reliability. All S6800 models support 1+1 redundant hot swappable power supply and an AC power supply and a DC power can be used simultaneously. Moreover, the switch supports fault detection and alarms for power modules and fan, fan speed can be automatically adjusted according to temperature variations.

High Switching Capacity

The backplane capacity of S6800 is up to 1.44T to provide all ports with non-stop forwarding. The S6800 high performance makes sure to build a reliable, sustainable high speed IP network.

The S6800 supports multi-lever switching; Each port support separate packet filtering, so that different control can be applied.

Powerful Services Support

The S6800 supports IGMP snooping, IGMP proxy, IGMP filter, and IGMP fast leave for robust multicast. It offers wire-speed replication of multicast packets between VLANs, and multicast load balancing among trunk member interfaces to meet requirements for IPTV services and other multicast services.

Superior Quality of Service

The S6800 offers Gigabit Ethernet with intelligent services that keep everything flowing smoothly with mechanisms for marking, classification, and scheduling.

It supports traffic classification based on abundant criteria such as MAC/IP address, Layer 4 TCP/UDP port number, protocol, port and VLAN.

Each port supports 8 priority queues with multiple queue scheduling algorithms such as SP/PQ, DRR, SP/PQ+DRR to ensure the highest-priority packets

are processed ahead of all other traffic.

Advanced Security

The S6800 offers a comprehensive security solution by providing service security in three aspects: subscriber, switch and network.

Subscriber security helps create protections among customers with multiple features. DHCP Snooping, ARP Inspection, and IP Source Guard help to identify each customer based on MAC, IP address and port information to help prevent malicious attack.

Switch security means CPU can be protected from DoS attack and storm. The port security feature allows controlling the number of MAC addresses against overwhelming the switch memory.

Network security is to filter all incoming traffic for ensuring only valid traffic passing through by applying different ACL rules and IEEE 802.1x authentication prevents insecure terminals to intrude illegally into the entire network.



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Features	S6800-48F6Q	S6800-48F4C2Q	S6800-24F-X	
Ports	48×10GE SFP+ 6×40GE QSFP+	48×10GE SFP+ 2×40GE QSFP+ 4×40/100GE QSFP28	4×GE Combo 24×10GE SFP+	
Throughput	1080Mpps		363.07Mpps	
Switching capacity	1.44Tbps		488Gbps	
Memory and storage	1GB DDR2 SDRAM Memory and	512MB Flash Memory		
VLAN	4K VLANs; 1:1 & 2:2 VLAN Mapp	oing; Q-in-Q, selective Q-in-Q		
Port trunk	LACP; 32 trunk groups at most,	up to 8 ports in each group		
MAC	64K MAC		48K MAC;	
	48K MAC; Static MAC; Dynamic MAC; MAC-Flapping			
IP routing	Static routing, OSPF, IS-IS, BGP	,32K router table		
Multicast		snooping, IGMP filter, IGMP replication between VLANs, IGMP (ic Multicast (SSM)	· ·	
Reliability	STP, RSTP, MSTP; R-Link protect BPDU Guard, Loop protection, Ro	tion, VRRP, Trunk, Redundancy po oot protection;	wer	
QoS/ACL	Packet filtering at Layer 2 to Layer 4, packet filtering and classification based on 802.1p Cos, DSCP, IP Precedence, Interface, source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, Ipv6 traffic class, protocol type and VLAN ID			
	Time range ACL			
	Rate limiting (Ingress, Egress) with granularity at 1Mbps			
	Port-based traffic policing and one-rate two-color CAR			
	8 queues on each port			
	Flexible scheduling algorithms, in	ncluding SP/PQ, DRR, SP/PQ+DRR		
	WRED			
	IEEE 802.1Q V-Lan/tunnelling, Q in Q, V-Lan translation			
	Spanning Tree: STP/RSTP/MSTP			
L2 functions	Ring protection: ITU-T G.8032, multi-ring mode/revertive mode, switching time ≤50msec			
	Link aggregation: IEEE 802.3ad			
	Supporting Load balancing based on MAC source/destination/ combination, IP source/destination/ combination			
	User privilege management and password protection			
	Storm control: Broadcast, Multicast, DLF, unknown Unicast			
	DoS attack defense, ARP attack defense, IP source guard			
	Binding of the IP address, MAC address, interface			
Security	Port isolation, Port security			
	Black hole MAC address entries			
	Limit on number of learned MAC addresses			
	PPPoE Intermediate Agent			
	802.1x authentication, RADIUS authentication			



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Features	S6800-48F6Q	S6800-48F4C2Q	S6800-24F-X		
	SSH v2.0				
	CPU protection/ CPU guard				
	Access control list				
Energy saving	Dynamic fan speed adjusting				
Management & maintenance	Port mirroring and Flow-based mirroring, flow control				
	Configuration via CLI, Telnet, Console port,				
	SNMP v1/v2/v2C/v3, RMON, LLDP, Syslog, Trap log				
	Third-Party GUI management platform based on SNMP				
	Loading and upgrade via FTP, TFTP				
	DDM on optical port				
	Port loopback detection				
Synchronization	NTP v3/v4				
	1588V2 E2E TC				
Operating	Operation temperature: $0^{\circ}\!$				
environment	Relative humidity:10%-90% (non-condensing)				
Input voltage	AC: Rated voltage range:100V to 240V AC, 50/60Hz				
	Maximum voltage range:90V to 264V AC, 50/60Hz				
	DC: Rated voltage range: -48V to -60V DC				
	Max voltage range: -36V to -72V DC				
Dimensions (W×D×H) mm	445×340×44		440×240×44		
Power consumption	≤180W		≤95W		
Weight (GW)	<9 kg		4.6 kg		

Visit www.fiberhome.com for more information

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