

18-port Fiber Managed Core Switch **FS1810G**



Introductions

FS1810G is a fully L2 fiber gigabit switch designed and developed solely for the purpose of building high-performance gigabit network requirement. There are 8 full Gigabit RJ45 ports and 10 SFP ports, providing a comprehensive security protection system, perfect QoS strategy and rich VLAN function, management and maintenance are simple and can be applied to small and medium enterprises, core layer of community and school.



Features

- 8*10/100/1000M*RJ45, 10*SFP port
- Comprehensive security protection system to ensure long-term stable operation of the network
- Rich QoS strategy and ACL access control function, multi service, efficient integration operation
- Port convergence and spanning tree protocol improve the ability of link redundancy backup
- Provide secure, flexible ways of providing Web, network management, CLI command line, SNMP, etc.
- Provide network diagnosis, cable inspection, system logs and other functions.

Full Gigabit access

Provides 8 10/100/1000M adaptive RJ45 port, all the ports have the line speed forwarding capacity; besides, 10 SFP ports are available, the managed switch fully protect user investment, convenient and flexible.

Comprehensive safety protection system

Simple operation, simplifying the management of network; combination of ARP attack protection function, completely solve the network ARP spoofing attacks; support port security, can limit the number of port MAC address, MAC address effective defense attack; support DoS attack protection, effectively guarantee the network security.

Powerful VLAN capabilities

IEEE 802.1Q, VLAN, meet the needs of different users, make the network more convenient, efficient and safe.

Rich QoS strategy

3 priority modes based on port, IEEE 802.1p and DSCP to guarantee the priority processing of key business data; support traffic control function and can reasonably allocate bandwidth.

Multilevel access control policy

Powerful hardware ACL capacity, support L2 ~ L4 data stream classification; easy network monitoring, traffic regulation, priority weight markers and data forwarding control; support time based ACL control, easy to realize the time accurate access control needs; support port and MAC 802.1x based authentication based on user access, easy setup.

Reliability design

STP/RSTP/MSTP two layer link protection technology, greatly improve the ability of fault tolerance, redundancy link, to ensure stable operation of the network; provide static convergence and dynamic



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aggregation of two kinds of convergence pattern, effectively increase the link bandwidth, improve link reliability, while achieving load balancing, link backup; support multicast management, through the IGMP Snooping technology, effective inhibition of multicast overload caused by network congestion.

Secure network management and maintenance

CLI command line (Console, Telnet), Web network, SNMP (v1/v2c/v3, SSH (v1/v2) and other management methods, to achieve fast and convenient network management; support user identity classification, filtering and other functions, enhanced security configuration; support port data monitoring, real-time monitoring of network status, to easily achieve the global unified management of the network, convenient flexible.

Advanced watchdog Technology

System integration against false halt system, when the system resources exhausted or the system suspended tasks and other unexpected circumstances, the system will automatically restart, to ensure reliable operation of the network.

Technical Specifications

Hardware	
Interface Port	8*10/100/1000M UTP 10*SFP
Management Port	1*Console port
Reset KEY	1
Switch Capacity	36Gbps
Forwarding Rate	26.78Mpps
CPU	500MHz
RAM	128M
MAC	8K
Packet Buffer	4.1M
FLASH	16M
Transmission	Store and Forward(full wore speed)
Transmission Distance	10BASE-T: Cat3,4,5 UTP(≤250 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-TX: Cat6 or later UTP(≤1000 meter) 1000BASE-SX: 62.5µm/50µm MMF(2m~550m) 1000BASE-LX: 62.5µm/50µm MM(2m~550m) or 10µm SMF(2m~5000m)
Jumbo Frames	9k
LED Indicator	POWER: Power LED Port: (Green=Link LED) 9~18: (SFP LED)
Operating Temperature	0°C~50°C
Storage Temperature	-40°C~75°C
Operating Humidity	5%~90% Non-coagulation
Storage Humidity	5%~95% Non-coagulation
Product Size / Packing Size	440 x 210 x 45mm 515 x 300 x 95mm
Weight	3.1kg
Installation	Rack mounting

Lightning Protection Level	3KV 8/20us
Power Input	AC 100-240V 50-60Hz
Power Consumption	≤ 35W
IP Level	IP30
Certificate	CE, commercial, CE/LVD EN60950 FCC Part 15 Class B, RoHS
Warranty	Whole device for 1 year(Accessories not include)



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Software	
Standards	IEEE 802.3x IEEE 802.3, IEEE 802.3u, IEEE 802.3ab IEEE 802.3ad IEEE 802.3q, IEEE 802.3q/p IEEE 802.1w, IEEE 802.1d, IEEE 802.1S IEEE 802.3z 1000BASE-X IEEE 802.1X
MAC Address	Support 8K MAC address, MAC address learning and aging
VLAN	Port-based VLANs Up to 4096 VLAN Support Voice VLAN, can configuration QoS for voice data 802.1Q VLAN
Ring Protection	STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) MSTP(Multiple Spanning Tree Protocol) ERPS ring network protocol EAPS ring network protocol 802.1x argumentation agreement
Link Aggregation	Max 8 aggregation groups trunk, each support 8 ports
Port Mirror	Many-to-one port mirroring
Loop Guard	Loop protection function, Real-time detection, Rapid alarm, Accurate positioning, Intelligent blocking, Automatic recovery
Port Isolation	Support downlink ports isolated from each other and communicate with uplink port
Port Flow Control	Half duplex based back pressure control Full duplex based on PAUSE frames
Line Rate	Support port-based input / output bandwidth management
IGMP Snooping	IGMPv1/2/3 MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing ports, static multicast address
DHCP	DHCP Snooping
Storm Suppression	Unknown unicast, Multicast, Unknown multicast, Storm suppression of broadcast type Storm suppression based on bandwidth Tuning and Storm filtering
Security	User port + IP address + MAC ACL based on IP and MAC Security properties of port-based MAC address quantities
QoS	802.1p port queue priority algorithm Cos/ Tos, QoS sign WRR(Weighted Round Robin), Weighted priority rotation algorithm WRR, SP, WFQ, 3 priority scheduling models
Cable Sequence	Auto-MDIX; auto identification of straight-through cables and crossover cables
System Maintenance	Upgrade package upload System log view WEB restore factory configuration
Negotiation Mode	Port supports automatic negotiation (self-negotiation transmission rate and duplex mode)
Management and Maintenance	WEB NMS CLI management base on Telnet TFTP

SNMP v1/v2/v3
SSHv1/v2
RMON Management



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