28-Port Gigabit L2 Managed Switch

SW-MG28L4F-073

Description

The switch is a full Gigabit management switch, which uses the unique optical port design of the industry, breaking through the limitations of traditional multiplexing ports; reliable switching engine, broadband telecommunication power supply design, fast and efficient loop protection function, escorting the stable operation of your network; international "EEE" environmental protection and energy saving Standard design, effectively saving electricity and money for users.

This series of products provide users with brand-new technical characteristics and solutions in the aspects of security, reliability, multi-service integration, easy management and maintenance. It is the ideal convergence of office network, service network and resident network, access switch and the core switch of small and medium-sized enterprises and branches.

Main Features

Non-blocking High-speed Forwarding
Support L2 level wire-speed port switching, which enables all ports to forward packets without blocking.

High Speed and Efficiency Ring Protection
Real-time Monitoring: Built-in configuration-free ring protection, can provide real-time monitoring and find the network rings without delay.
Quick Alarm: The built-in buzzer quickly alarm when a ring is found , to warn the network administrator of ring problems.
Precise Localization: The ring problem interface indicator will flash slowly and periodically to help the network administrator precisely localize the ring port without any delay.
Intelligent Blocking: The switch can automatically block ring port when detect a ring problem, which can efficiently avoid broadcast storm caused by ring problem and secure the normal network communication.
Auto-recovery: After the ring problem is removed, the network will recover automatically, the buzzer stop alarming and ring port back to normal work.

Comprehensive Security Control Policies
Support link aggregation to enhance the network bandwidth and defend the network security with link backup.
Support multiple spanning tree protocols: STP, RSTP,provide rapid convergence and improved fault-tolerant capacity. The network sable operation and load balance are well guaranteed, also improved the reasonable use of network channels and redundant link.
Support the binding of user access interface, IP addresses and MAC addresses, to defend against inner network ARP attacks and Dos attacks.
Support the Back-pressure traffic control under Half-Duplex mode and IEEE 802.3x traffic control under Full-Duplex mode. The heavy traffic data peak can be switched stably without the concern of network paralysis caused by overload.

Convenient and Quick Management and Maintenance
Adopt simple visual Web-based interface, which helps users to handle various functions easily and conveniently.

Support Simple Network Management Protocol (SNMP) that the devices are convenient to configure and manage. Small and medium-sized enterprise customers can centralized manage the switch easily.

Support CLI command line management, suitable for professional network administrators.

Support Port Mirror Function, can monitor the ingress, egress or bi-direction packets.

Support resetting to factory defaults, make the maintenance more easily.

Innovative Energy Saving Design, the leader of low-carbon communication

Supports IEEE 802.3az(Energy Efficient Ethernet), port energy detection, CPU variable-frequency and device hibernate technology, greatly reducing energy consumption and noise without compromising performance and stability.

Technical Specification

Hardware Specifications

Fixed Ports	28 x 10/100/1000 Base-T ports
	4 x 1000 Base-X SFP ports(Combo)
Consloe	1
Reset	1
Port Switching capacity	56Gbps
Forwarding Rate	42Mpps
Flash/RAM	16MB/128MB
Temperature	Operating temperature: (-10 - 50)°C
	Storage temperature: (-40 - 70)°C
Humidity	Operating humidity: (10% - 90%) RH, non-condensing
	Storage humidity: (5% - 90%) % RH, non-condensing
Dimensions	440(L) x 205(W) x 44(H) mm
Power	AC: 100 ~ 240VAC, 50 ~ 60Hz, 5V/6A
Power consumption	30W
Weight	<3.5Kg
Lightning protection	6KV
MAC address table	8K
LED Indicator	Power,System ,Link/Act

Software specifications

Forwarding mode	Store-and-forward
Protocol and Standards	IEEE 802.3, 10 Base-T Ethernet;
	IEEE 802.3u,100 BASE-TX;
	IEEE 802.3ab,1000 BASE-T;
	IEEE 802.3z,1000 BASE-X;
	IEEE 802.3az,EEE(Energy Efficient Ethernet);
MAC Address	8K MAC addresses,Support auto-update, two-way learning
VLAN	Based Port VLAN
	Up to 4096 VLAN
	VLANs based on IEEE 802.1q
Spanning Tree	STP Spanning Tree Protocol
	RSTP Rapid Spanning Tree Protocol
Port Aggregation	8 aggregation groups,each containing up to 8 ports;
Port Mirroring	Send and receive two-way port mirroring

Ring network protocol	Support
	Support ring protection
	Support for Downward Multiring
Port Isolation, Port stream control	Downlink ports are isolated from each other and can communicate with uplink
	Half duplex based on backpressure control
	Full duplex based on PAUSE frames
Port speed limit	Port Based Input / Output Bandwidth Management
Multicast control	IGMPv1/2/3 and MLDv1/2 Snooping
IPv6	Pingv6
DHCP	DHCP Snooping
Storm suppression	Storm suppression for unknown Unicast, multicast, multicast, broadcast type
	Storm suppression based on bandwidth regulation and storm filtering
Security features	Based on Vlan, MAC binding
	ACL Based on IP and MAC
	Security limit on the number of MAC addresses based on ports
QOS	802.1 P Port Queue Priority Algorithm
	Cos/Tos,QOS tags
	WRR (Weighted Round Robin)
Line order	Auto-MDIX, Automatic identification of straight and cross lines
Ping Detection	IPv4/IPv6 Ping Detection
Modalities for consultation	Port automatic negotiation
System maintenance	Detection of connectivity
	Upgrade package upload
	See System log
	WEB factory configuration restored
Management	WEB-based interface management
	Telnet
	CLI Management (Command Line Interface)
	SNMP