



Product Overview

HSGQ-5536C is an L3 managed switch with 16*Gigabit SFP fiber optic module slots, 8*Gigabit Combo(8*GE/8*SFP), 4*SFP+ 10 Gigabit fiber optic module slots, and 1*Type-C console management interface . It supports IPv4 / IPv6 dual-stack, static routing, DHCP Server, DHCP Relay, and DHCP Snooping. It supports Layer 3 routing protocols, including RIP, RIPng, OSPF, OSPFv3 dynamic routing, and VRRP virtual routing redundancy protocols. It provides comprehensive security policies, robust QoS policies, and rich VLAN functionality, making it easy to manage and maintain, and meeting the networking access needs of enterprises, residential communities, hotels, office networks, and campus networks.

Features

- 16*Gigabit SFP Optical+ 8*Combo(8*GE/8*SFP) + 4*(SFP+) 10 Gigabit optical ports + 1*Type-C Console interface + 1*USB 2.0 interface;
- AC and DC dual power supply redundancy design; standard configuration includes 1*AC100-240V power supply, optional AC+DC (12V/48V) dual power supply, optional AC+AC dual power supply;
- It supports RTC real-time clock function to meet the time continuity requirements of industrial equipment;
- Optional support for temperature sensors and smart fans;
- Supports STP/RSTP/MSTP link protection technologies and ERPS ring network protocol ;
- It supports two aggregation modes: static link aggregation and LACP dynamic link aggregation, which effectively increases link bandwidth and improves link reliability, while also enabling load balancing and link backup.
- Supports IPv4 / IPv6 dual protocol stack, static routing, DHCP Server, DHCP Relay, and DHCP Snooping ;
- Supports Layer 3 routing protocols, including RIP, RIPng, OSPF, OSPFv3 dynamic routing, and VRRP

virtual route redundancy protocol;

- It has loop detection capabilities and adopts an intelligent resolution mechanism to achieve intelligent network self-healing;
- Supports multiple management methods including Type-C Console, Web CLI, Telnet, SSH, and SNMP (v1/v2c/v3);
- It supports bilingual (Chinese and English) web interface management, making product debugging simpler and more efficient;
- Supports MQTT protocol connection to EDMS cloud management platform, which supports local and cloud deployment;
- Supports full firmware version upgrades via HTTP, TFTP, and FTP transfer methods.

Hardware Specifications

Product Name	HSGQ-5536C
Network Standards	IEEE802.3, IEEE802.3u, IEEE 802.3ab, IEEE802.3z, IEEE802.3ae, IEEE802.3x, IEEE802.1x, IEEE802.1q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.1s, IEEE802.3ad , IEEE 802.1ab
interface	16*SFP Fiber Optic Module Slots 8*Combo(8*GE/8*SFP) 4*SFP+ 10 Gigabit Fiber Optic Module Slots 1*Type-C Console interface (115200,8,N,1) 1*USB2.0 interface
LED indicator light	PWR 1 (green), PWR 2 (green), SYS (green), Port LED (green)
Network media (cables)	100BASE-TX: Cat 5, 5e and above unshielded twisted pair cable (≤100m) 1000BASE-T: Cat 5e, 6 and above unshielded twisted pair cable (≤100m) 1000BASE-X: MMF, SMF Modules 10GBASE-X: MMF, SMF Modules 10GBASE-SR: OM1/OM2/OM3 or higher MMF (2m ~ 300m) 10GBASE-LR: IEC B1.1 and B1.3 SMF (2m~10000m)
MAC address table	16K
Jumbo Frame	12K Byte
Packet buffer	12Mbit
Forwarding mode	Store-and-forward
Switching capacity	128 Gbps
Packet forwarding rate	96 Mpps
Power supply	96W
Power input	Standard configuration includes 1*AC100-240V power supply Optional AC+DC (12V/48V) dual power supply Optional AC+AC dual power supply
Fan	2
Dimensions (L*W*H)	440x261x44mm
Static electricity standards	Contact ±6KV, air ±8KV
Surge levels	Common mode ± 6KV
Operating temperature	-10°C ~ 50°C
Storage temperature	-40 °C ~ 85 °C
Operating humidity	10% ~ 90% Non-condensing
Storage humidity	5% ~ 90% Non-condensing
Mean Time Between Failures	50,000 hours

Software Specifications

L3 Features	DHCPv4 Server、DHCPv6 Server
	IPv4/IPv6 Static Route
	RIP v1/v2
	RIPng
	OSPF v2/v3
	PIM
	VRRP V2/V3
System Info	Port Status
	Product Model、SN、Firmware Version、Hardware Version
	Memory Usage、CPU Usage
	HTTP/HTTPS/Web-Telnet
	OPEN API
NTP	NTP Client
	Supports domain name resolution
	Support RTC(real-time clock)
System Upgrade	Full firmware upgrade support over FTP/TFTP/Web
Device Management	Support MGMT management
	Type-C Console
	Support SSH/Telnet/HTTP/HTTPS/SNMP/Web-Telnet/Cloud Management
	Timer Task
	Ping、Traceroute
	IPv4 and IPv6 dual protocol stack
	Supports MQTT protocol
	RMON (Remote Network Monitoring)
Access Management	IP-Based Access Control
	MAC-Based Access Control
	Port-Based Access Control
Management	View current config
	Upload/Download Configuration File
	Restore Factory
User Management	Supports multiple users with different permissions
	root group / admin group
	Supports multiple users working simultaneously
Port Config	Port Speed/Duplex Mode/Auto
	Flow Control (IEEE802.3x)
	EEE(IEEE802.3az)

	MTU
	Jumbo Frame
	Rate Limit, Ingress/Egress Rate Limit
	Traffic statistics
	Port Status alarm
	Storm Control (Broadcast/Multicast/Unicast)
	DDM
	Port Security
	Loop Detection
	Port Isolation
Link Aggregation	Manual Aggregation
	LACP Aggregation (IEEE802.3ad)
	Load Balance (SRC-MAC/DST-MAC/SRC-IP/DST-IP)
	Max groups and ports per group (128 Group/8 Port)
Mirror	Port-Based Mirror, Support one to one, Many to one
	Support Ingress/Egress/Both
	Support 4 sets of mirror configuration
	CPU based Mirror
	Flow-based Mirror
MAC Address Table	RSPAN Mirror
	MAC Address Table
	MAC Aging Time
	MAC Filter
	Static MAC Address (Sticky MAC)
	Port-Based MAC address count limit
	Enable dynamic MAC address learning
	Clear MAC Address Table
VLAN	MAC Authentication
	Supports port-based MAC address drift prevention
	IEEE802.1Q 4K VLAN
	Port VLAN, Access/Trunk/Hybrid
	VLAN Translate
	VLAN QinQ
	Protocol VLAN
LLDP	Voice VLAN
	GVRP
Spanning-Tree	LLDP (IEEE802.1ab)
	LLDP-MED
ERPS	IEEE802.1d (STP) / 802.1w (RSTP) / 802.1s (MSTP)
ERPS	ERPS v1
BFD	BFD (Bidirectional Forwarding Detection)

IGMP	IGMP Snooping v1/v2
	IGMP Proxy
	IGMP Fast leave
	Multicast-VLAN
	IPv6 MLD Snooping v1/v2
PIM	PIM-SM、PIM-SSM
VPN	L2 Tunnel-BPDU Guard, Root Guard、BPDU filtering、BPDU Tunnel (12 protocol-tunnel)、BPDU transparent
DHCP	DHCP Server (IPv4/IPv6)
	DHCP Client (IPv4/IPv6)
	DHCP Relay (IPv4/IPv6)
	DHCP Snooping (IPv4/IPv6)
	DHCP Option82、Option18、Option37
Route	IPv4/IPv6 Static Route
	IPv6 ND (Neighbor Discovery)
	IPv6 PMTU
ARP	ARP Scanning Prevention
	ARP Spoofing Prevention
	ARP Guard
	Free ARP
	Dynamic ARP Inspection
	ARP Quantity Control
SNMP	SNMPv1/v2c/v3
	SNMP Trap
ACL	MAC-ACL, SRC/DST MAC
	IP-ACL, SIP/DIP/IP Protocol/SRC Port/DST Port
	VLAN/COS/SRC MAC/DST MAC/Tag/Untag/Time-Range
	Traffic Limit
	Packet-Filter
QoS	Trust COS/DSCP
	Trust Port
	SP/WRR/PQ/WRR+PQ Scheduling
	Based on VLAN/COS/DSCP PolicyMap Stream
	Traffic Classes (8 active priorities)
	Ingress Policing、CAR Stream Shaping
	Supports Tail-Drop/WRED congestion avoidance mechanisms
Alarm	System Alarm
	Support CPU and Memory threshold alarm
	Port alarm, supports port up/down alarm and rate alarm
	Alarm level configuration
Syslog	System log level configuration

	Support system log download
	Support operation log
	Support Syslog Server
	Enable CLI alarm
Security	Radius Client, Supports plaintext and ciphertext
	Tacacs+
	802.1x, Port-Based Authentication
	Openssl 1.1.0
	IP Source Guard, IP+MAC+Port+VLAN Binding
	Link Flap Detect
Deny DoS Attack	TCP Flag
	Support IP address verification
	Support port check
	Support ICMP attack detection
Redundant Backup	Smart Link
	Monitor Link

Ordering Information

Product Name	Product Information
HSGQ-5536C	16*SFP+8*Combo(8*GE/8*SFP)+4*10G SFP+ L3 Managed Switch