



2026 PRODUCT CATALOG

Manufacturer of POL Products

Shenzhen HS Fiber Communication Equipment Co., Ltd.





Company Overview

Company Profile

Shenzhen HS Fiber Communication Equipment Co., Ltd. (HSGQ), founded in 2007 and headquartered in the tech hub of Shenzhen, is a high-tech enterprise specializing in the R&D, production, sales and service of optical fiber communication equipment. HSGQ is also an innovator and pioneer in applied technologies for global optical communication equipment and optical network interconnection.



Intelligent Cloud Management, All-Optical Network Equipment Supplier

HSGQ mainly focuses on XGS-PON/XG-PON/GPON/EPON products, optical switches, SFP modules, Wi-Fi Router and accessories, with over 18 years experience in FTTH. All products are developed and manufactured with independent intellectual property. We have a number of industrial utility model patents and software copyright registration rights, and national authoritative test certificates, such as 3C, CE, ANATEL, ISO9001, RoHS. We always take technology as the forerunner, continuously innovates and looks ahead to the future. HSGQ will expand the product line to 25G PON and 50G PON, and pave the way for the next generation network.

10,000 m² +
Factory Space



60,000+
Customers



160+
Countries



2027

Wi-Fi 7 XGS-PON Gateway
Data Center Switch
HSGQ APP Release



2024

L3 Managed Switches,
Wi-Fi 6 ONU released.
Expanded factory and
product line.



2019

Gained
High-tech Enterprise Certificate,
Intellectual Property Management
System Certificate,
QoS, ISO 9001, ISO 14001,
Brand Certification,
3C Certification,
CE Certification



2026

Release XGS-PON OLT
100G Switch
EDMS Release
Cloud platform version



2021

63 domestic patents including
33 invention & 30 design patents
1 overseas patent 11 domestic
and 10 overseas registered
trademarks Annual sales
reached 200 million CNY



2014

Establishment of SFP Line
Researched and Launched
the PON Module, PON Stick,
and 1.25G/10G/25G SFP



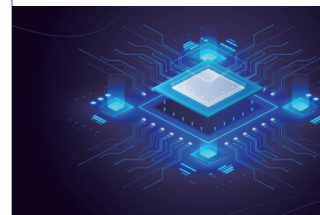
2010

HSGQ brand registered
and recommended as
'Safe City Construction' brand



2017

Gained 5 patents and
21 Software Copyrights
EPON OLT



2012

Gained the ISO9001 certificate
and Telecom Equipment
Network Access license



2007

HSGQ was established and
launched media converter



All-optical Wi-Fi Solution

Fiber Optic Cable

Network Cable

Photoelectric Composite Cable



HSGQ-3510S

- » 8*Gigabit SFP fiber optic module slots
- » 2*SFP+ 10 Gigabit fiber optic module slots
- » 1*Type-C Console interface (115200,8,N,1).



HSGQ-F32R

- » 1*PON(IN)
- » 32*PoF SC(Out)
- » 1*PON (Out) Optical Router



HSGQ 10G SFP

- » 10G High-speed data rate
- » Inter-rack connections
- » Custom high-speed data links



HSGQ-OLT STICK

- » 1*GPON
- » Downstream: 2.5G , Upstream: 1.25G
- » CLI/Cloud Management



HSGQ-F316R

- » Ports: 16xPoF SC(Out)
- » Transmit distance up to 200 meter
- » Power: Max output power: 260W



HSGQ-F400P

- » 1*XPON PoF SC
- » 4*GE PoE/PoE+ RJ45
- » 60W output



HSGQ-F856

- » 1*XPON PoF SC
- » 1*2.5G+3*GE LAN port
- » 1*Voice port
- » AX3000 Wi-Fi



HSGQ-F880

- » 1*XPON PoF SC
- » 1*GE(PD)+1*GE LAN
- » AX3000 Wi-Fi

Commercial offices

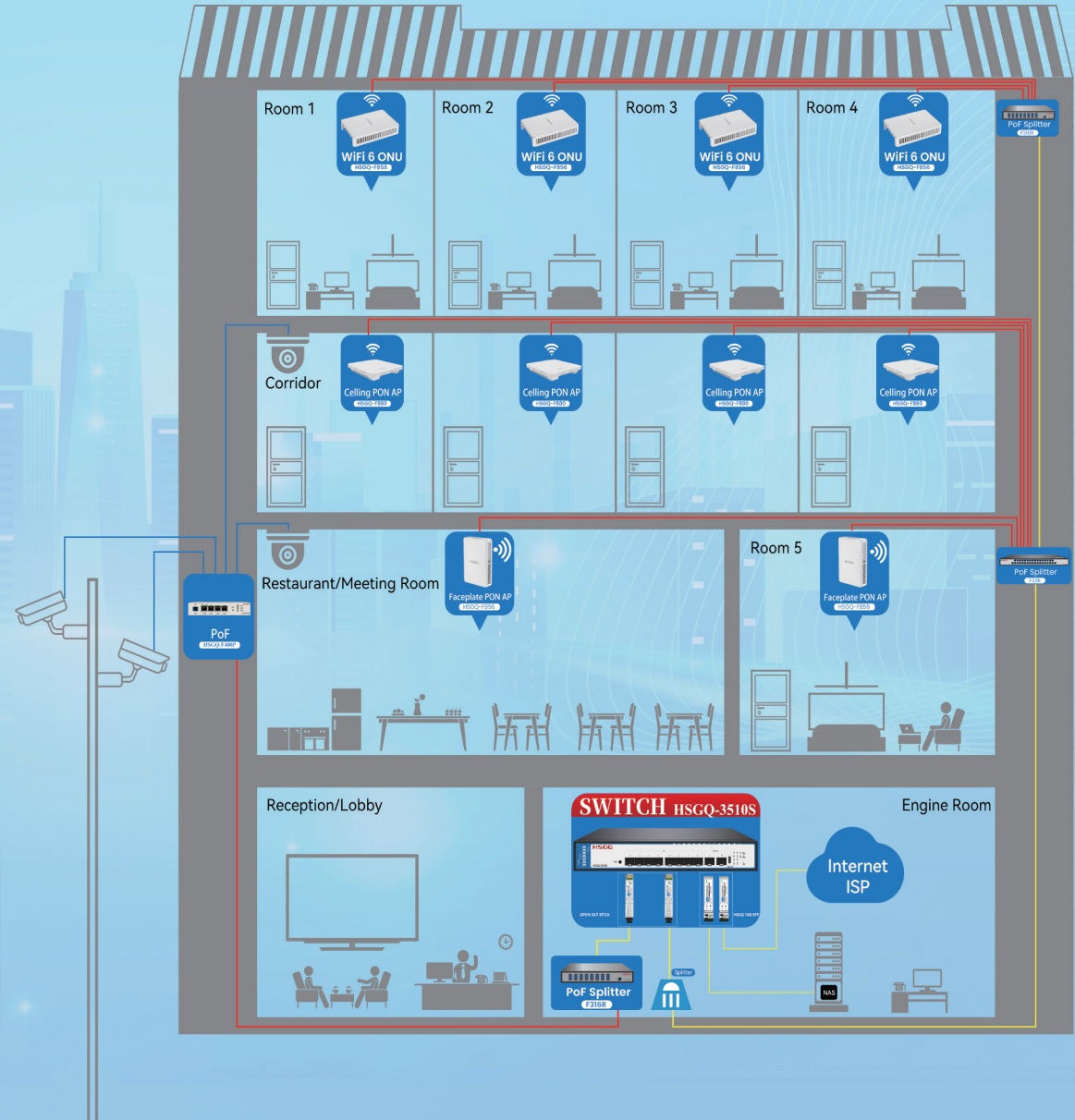
HSGQ-3510S *1
OLT STICK *1
WIFI6 panel-mounted AP *3
PoE ONU *1

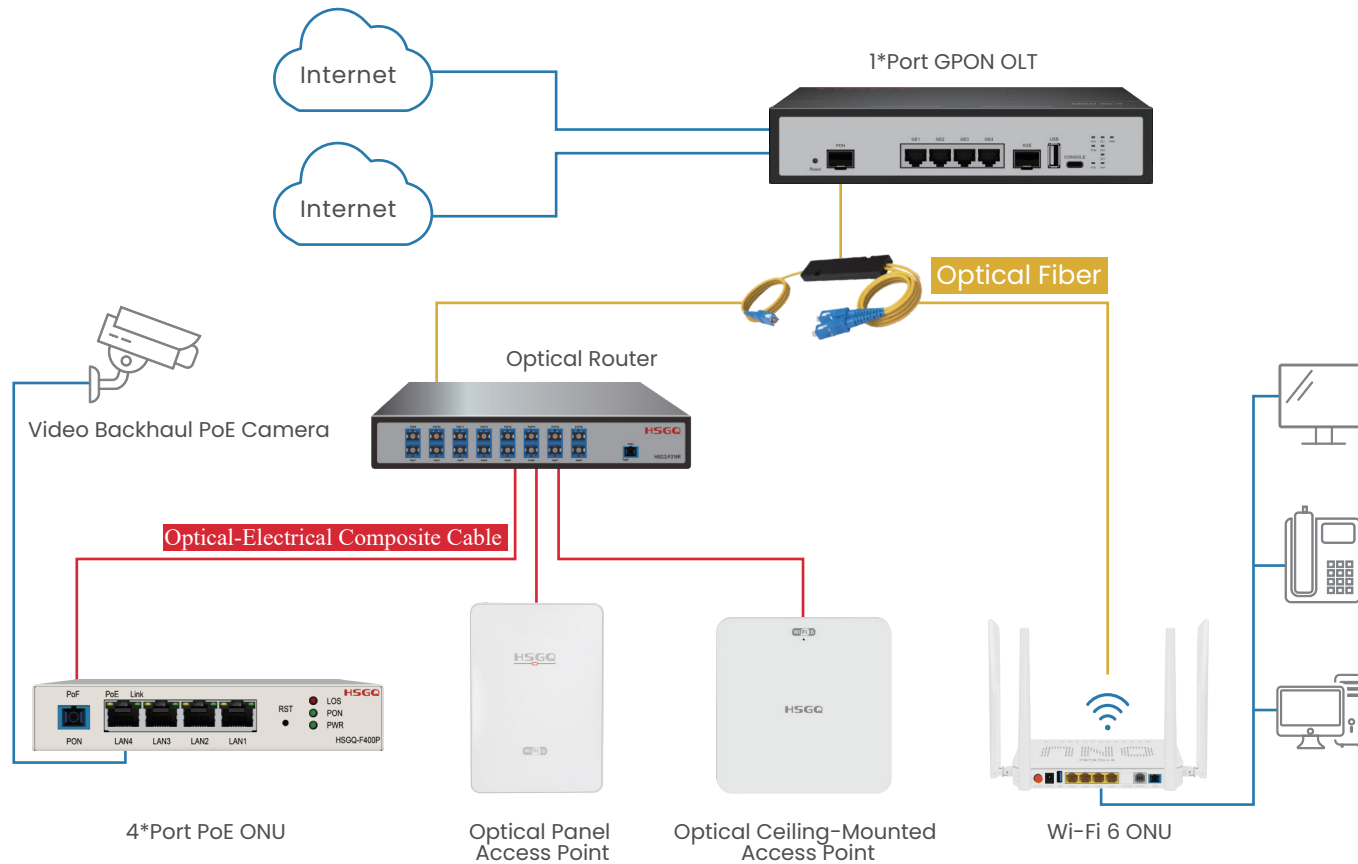
Chain stores

HSGQ-3510S *1
OLT STICK *1
WIFI6 panel-mounted AP *3
PoE ONU *1

Complete Wi-Fi coverage for villas

HSGQ-3510S *1
OLT STICK *4
WIFI6 panel-mounted AP *30
WIFI6 panel-mounted AP *10
PoE ONU *5





Key Features of HSGQ Solutions



Simplified Deployment:

Via optical-electrical composite cables to connect optical APs or cameras at the terminal from the equipment room, eliminating the need for intermediate power supply.



Effortless O&M:

One-click configuration deployment and remote debugging via cloud platform.



Ultimate Experience:

Optical APs support up to 64 users, high concurrency, and deliver exceptional performance.



Automatic Network Fault Alerting:

Immediate response to O&M requirements at the first time.

Challenges

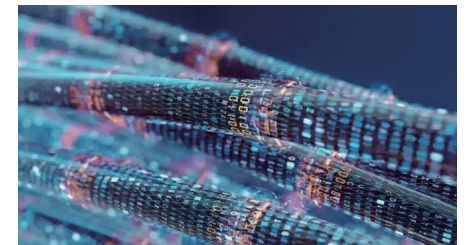
Twisted pair cables fail to support the long-term evolution.



Powering devices remains relatively difficult.



Additionally, optical fibers cannot address the Power over Ethernet (PoE) power supply issue.



Wi-Fi 6 AX3000

Dual-Band Gigabit Router

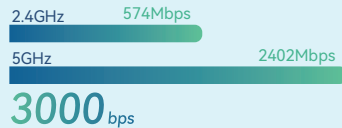
Faster Speeds, Stronger Coverage, More Stable Connections

HSGQ-R3000: 1*WAN port+3*GE RJ45+Wi-Fi 6 Wireless Router



Wi-Fi AX3000 High-Speed Wireless

Supports 802.11ax
2.4GHz Up to 574Mbps
5GHz Up to 2402Mbps
Dual-Band Concurrent Up to 3000Mbps



External FEM

An external independent FEM chip further improves wireless transmission power and reduces noise interference during wireless signal reception, solving the problem of Wi-Fi coverage in large homes.



High-performance dual-core CPU

Smooth multi-device connectivity.
Dual-core processor enhances data forwarding and multitasking capabilities.



Hybrid Mesh Networking

Easily expand whole-house network. Supports wired, wireless, and hybrid Easy Mesh networks.



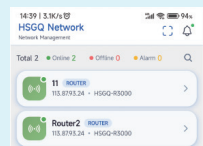
Wireless Access Binding

Prevents unauthorized device access Supports binding and management of networked devices.



HSGQ APP Smart Management

Manage your whole family's network easily with just one mobile phone.



GLOBAL DISTRIBUTOR PROGRAM

Partner with HSGQ and Grow Together

HSGQ is a leading provider of next-generation communication solutions. We are looking for global distributors to expand our reach and deliver high-quality communication products and services to worldwide customers.



GLOBAL MARKET OPPORTUNITY

High-growth markets worldwide with huge potential.



COMPETITIVE ADVANTAGE

Reliable products, strong brand, and full support.



TECHNICAL SUPPORT

Professional training, technical assistance, and quick response.



MARKETING SUPPORT

Co-marketing tools and promotional resources.



FLEXIBLE & PROFITABLE

Flexible cooperation models and attractive profit margins.



LONG-TERM PARTNERSHIP

Build sustainable growth and achieve mutual success.



DATA CENTERS



TELECOM INFRASTRUCTURE



ENTERPRISE COMMUNICATIONS



FIBER NETWORKS



SMART CAMPUS



HOTEL COMMUNICATIONS



INDUSTRIAL CONNECTIVITY



ISP / CARRIER SOLUTIONS



IN-WALL & INDOOR AP



WIRELESS BACKHAUL SOLUTIONS



FOR DISTRIBUTORS

Expand your product portfolio, increase market share, and grow your business with HSGQ.



FOR SYSTEM INTEGRATORS

Access innovative solutions, strengthen your offerings, and deliver greater value to your customers.



FOR GLOBAL PARTNERS

Work with a trusted partner to build long-term success and shape the future of communications together.



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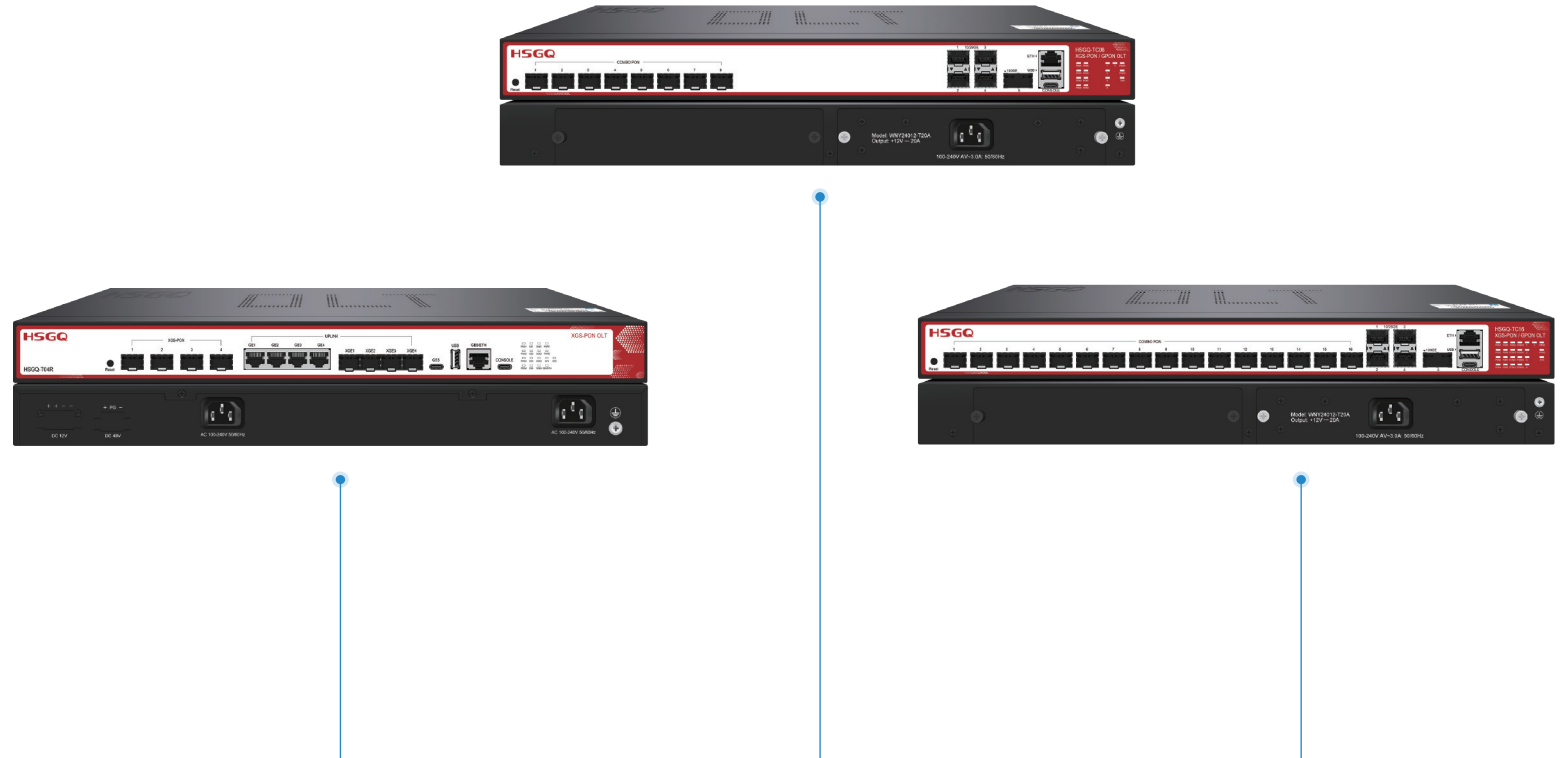
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XGS-PON OLT

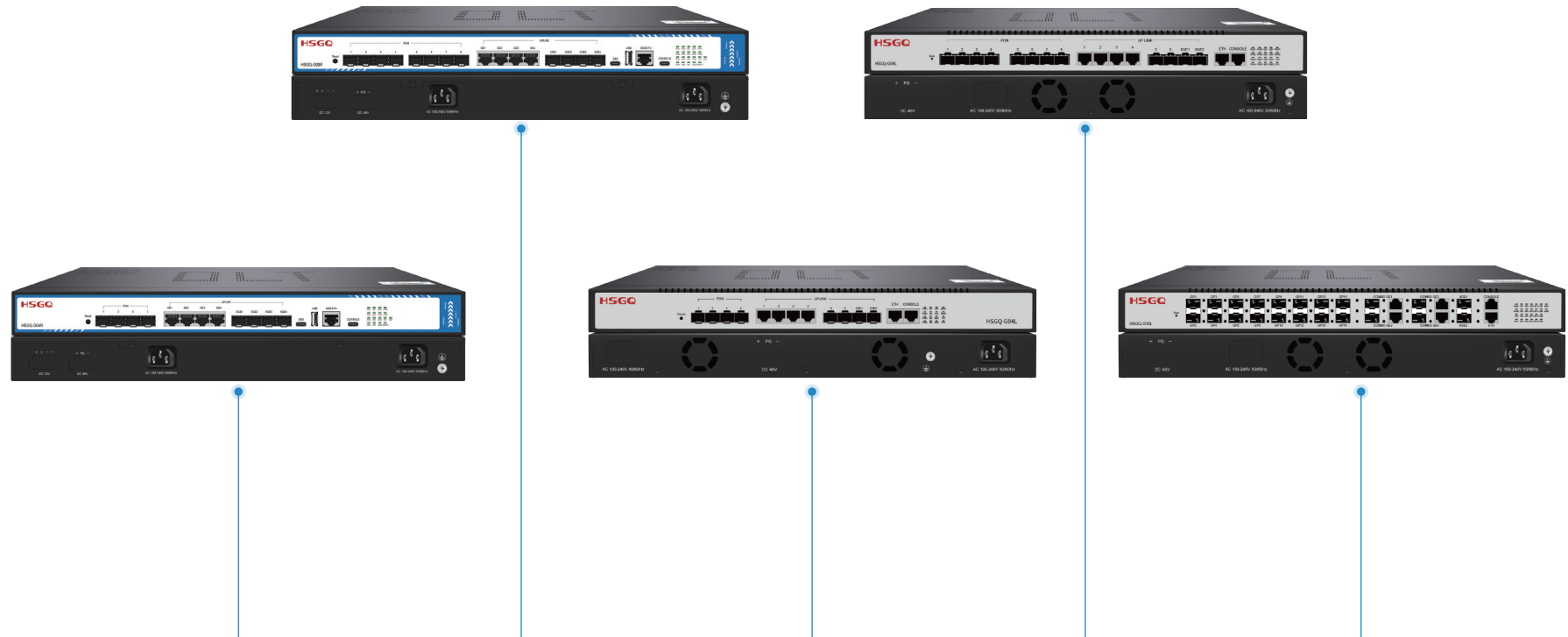
聚光互联，质筑未来
Connect the World with Light & Quality



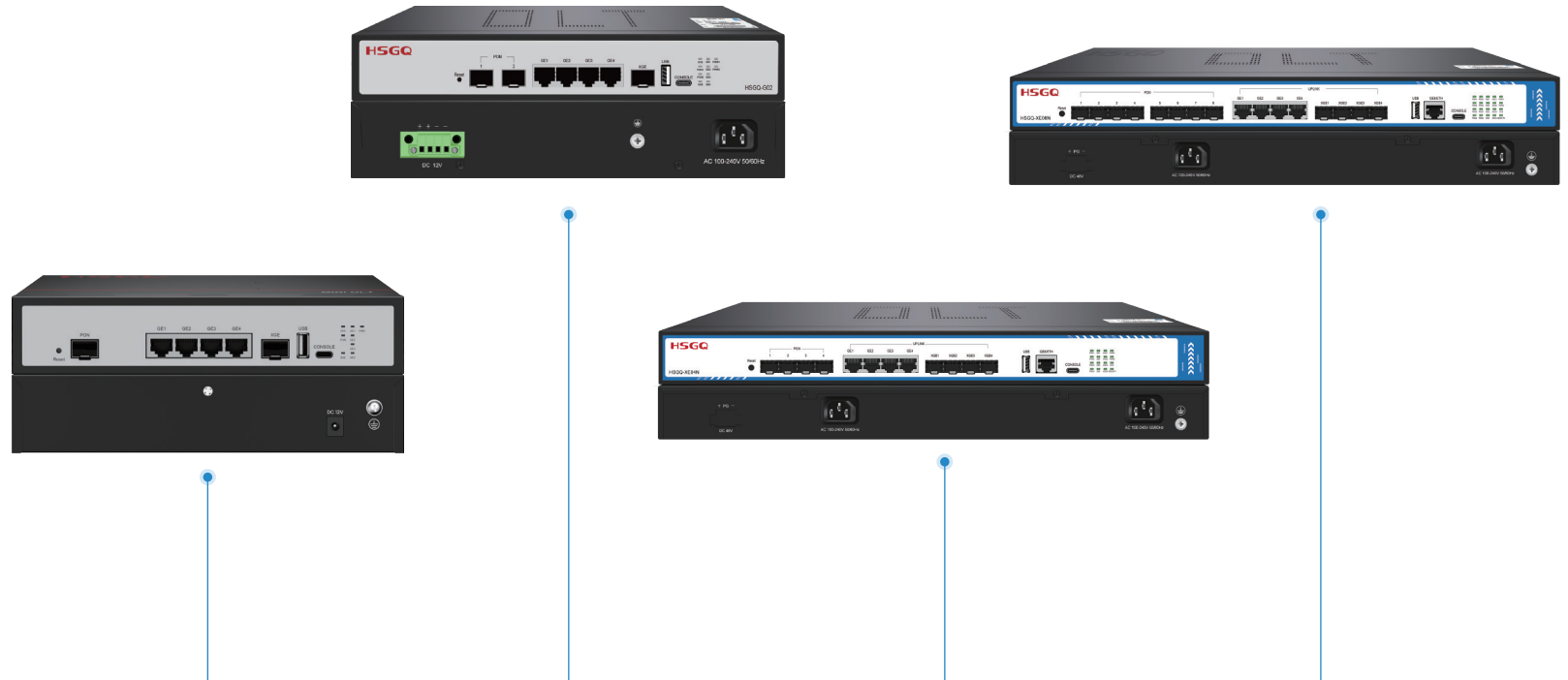
Model	HSGQ-TC04R	HSGQ-TC08	HSGQ-TC16
Size	440mm*262mm*44mm	440mm*409mm*44mm	
PON Ports	4*XGS-PON/GPON COMBO	8*XGS-PON/XG-PON/GPON COMBO	16*XGS-PON/XG-PON/GPON COMBO
Uplink Ports	4*GE, 4*10G SFP+, 1*USB	4*SFP28 25G, 1*QSFP28 100G	
Management Port	1*ETH/GE; 1*Type-C CONSOLE	1*ETH, 1*Type-C CONSOLE	
Power Supply	AC: 100-240V 50/60Hz; DC: 48V/12V	AC: 100-240V 50/60Hz	
Redundancy Design	Double AC Input; AC+DC Input	Double AC Input	
Software Feature	Static Routing, RIP, OSPF, DHCP, VRRP, PIM	Service Port, HQoS	
Working Temperature	-10°C~55°C		



Model	HSGQ-TC01	HSGQ-TC02
Size	285mm*196mm*44mm	
PON Ports	1*XGS-PON/XG-PON/GPON COMBO	2*XGS-PON/XG-PON/GPON COMBO
Uplink Ports	4*GE, 2*10G SFP+, 1*Type C CONSOLE	
USB Port	1*USB	
Management Port	1*ETH/GE; 1*Type-C CONSOLE	
Power Supply	AC: 100-240V 50/60Hz; DC: 12V	
Redundancy Design	AC+DC Input	
L3 Feature	Static Routing, RIP, OSPF, DHCP, VRRP, PIM	
Working Temperature	-10°C~55°C	



Model	HSGQ-G04R	HSGQ-G08R	HSGQ-G04L	HSGQ-G08L	HSGQ-G16L
Size	440mm*262mm*44mm				
PON Ports	4*GPON	8*GPON	4*GPON	8*GPON	16*GPON
Uplink Ports	4*GE, 4*10G SFP+, 1*Type-C		4*GE, 2*10G SFP+, 2*GE SFP		4*COMBO (RJ45/SFP), 2*10G SFP+
USB Port	1*USB		/		
Management Port	1*ETH/GE; 1*Type-C CONSOLE		1*ETH/GE; 1*CONSOLE		
Power Supply	AC: 100-240V 50/60Hz; DC: 48V				
Redundancy Design	Double AC Input; AC+DC Input				
Software Feature	Static Routing, RIP, OSPF, DHCP, VRRP, PIM		Static Routing, RIP, OSPF, Service Port		
Working Temperature	-10℃~60℃				



Model	HSGQ-C01	HSGQ-G02	HSGQ-XE04N	HSGQ-XE08N
Size	220mm*162mm*44mm	285mm*192mm*44mm	440mm*262mm*44.4mm	
PON Ports	1*GPON	2*GPON	4*EPON	8*EPON
Uplink Ports	4*GE, 1*10G SFP+		4*GE, 4*10G SFP+	
USB Port	1*USB			
Management Port	1*Type-C CONSOLE		1*NMS; 1*Type-C CONSOLE	
Power Supply	AC: 100-240V 50/60Hz; DC: 12V		AC: 100-240V 50/60Hz; DC: 48V or 12V	
Redundancy Design	AC+DC Input		Double AC Input; AC+DC Input	
L3 Feature	/		Static Routing, RIP, OSPF, DHCP, VRRP, PIM	
Working Temperature	-10°C~60°C			



Compact design to meet the needs of different application scenarios

1U 19 inch standardized design, support multi-scene deployment, 4 port/8 port/16 port optional, 1G/10G uplink design for flexible choice.



High economy, low energy consumption, cost-effective

PON point-to-multipoint, multi-area, fully passive optical design, the total power consumption of the equipment is low and the investment cost is low.



Redundant protection at telecommunication level to ensure stable operation of network

PON port supports Type B.



Small volume and low weight support various installation environments

Wall-mounted, cabinet, central office, basement, weak electric room, limited-space outdoor cabinet, mountain installation, etc.

GPON / XGS-PON OLT Software Features

Support automatic registration of ONU and automatic creation of service port.

Support QoS with reliable service quality assurance.

Support cloud management: public network remote access, open API.

Support WEB, CLI, NMS, SNMP and MQTT. Port attribute management, including port rate configuration, port isolation, and mirroring.

Support alarm function to diagnose network fault.

Support IGMP multicast function, RSTP and MSTP spanning tree protocols.

Support VLAN stacking and aggregation based on service port.

Support DBA function, so that users can share broadband more reasonably. Good compatibility with the mainstream ONU.

Support traffic suppression function, traffic statistics and AES data encryption.

Support SVLAN profile to automatically generate service ports.

Wi-Fi 7

3600 Mbps

Next-Generation High-Speed XGS-PON ONU

Faster Speeds, Stronger Coverage, More Stable Connections

HSGQ-T131BEU: 1*2.5G+3*GE+1*POTS+1*USB+Wi-Fi 7 XGS-PON ONU

HSGQ-X411BE: 4*GE+1*POTS+1*USB+Wi-Fi 7 XPON ONU



New Standard, More Powerful

Higher Throughput
Lower Latency
Stronger Anti-Interference



Whole-house Mesh Networking

Seamless Roaming, No Dead Zones



OFDMA+MU+MIMO

Simultaneous Multi-Device Connection
More Efficient and Congestion-Free

MLO

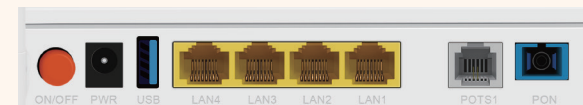
Aggregates multiple bands simultaneously
for higher throughput and lower latency



High-Gain Independent FEMs for Stronger Signals and
Wider Coverage



2.5G & Gigabit Ethernet Ports



Whole-House Coverage,
No Dead Zones



WPS One-Click Configuration,
Easy Connection



WPA3 Encryption for
Enhanced Security



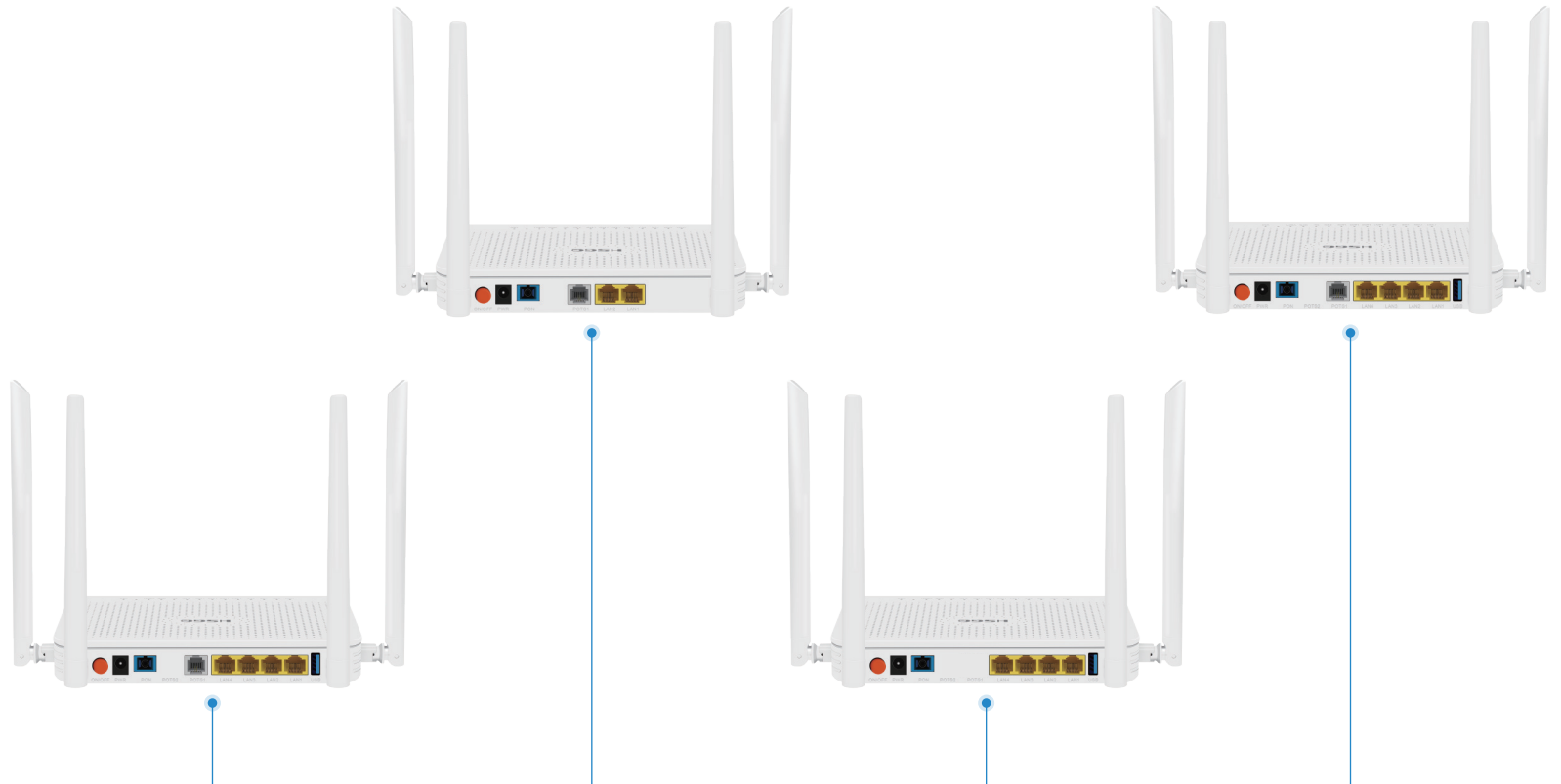
Intelligent QoS:
Game/Video Priority



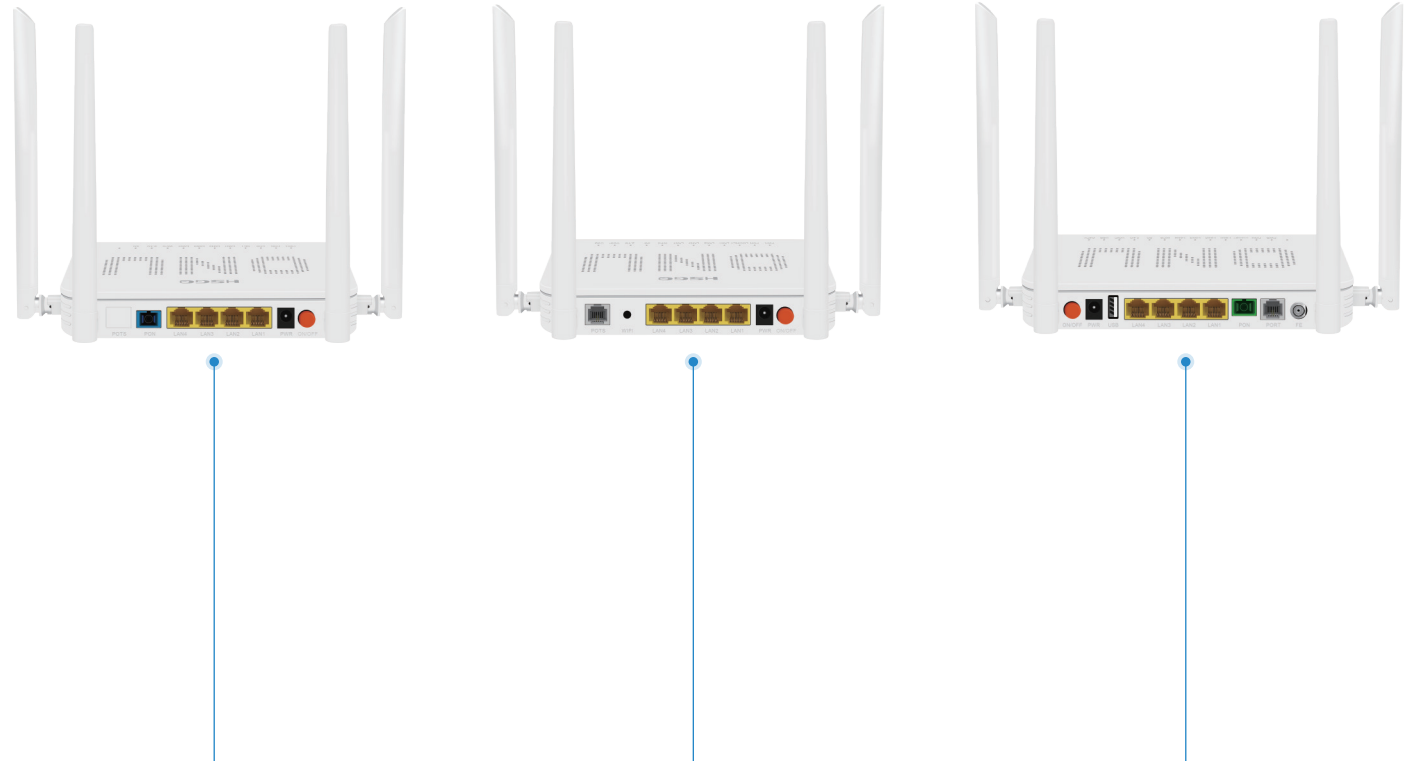
Parental Controls for Healthy
Internet Access Management



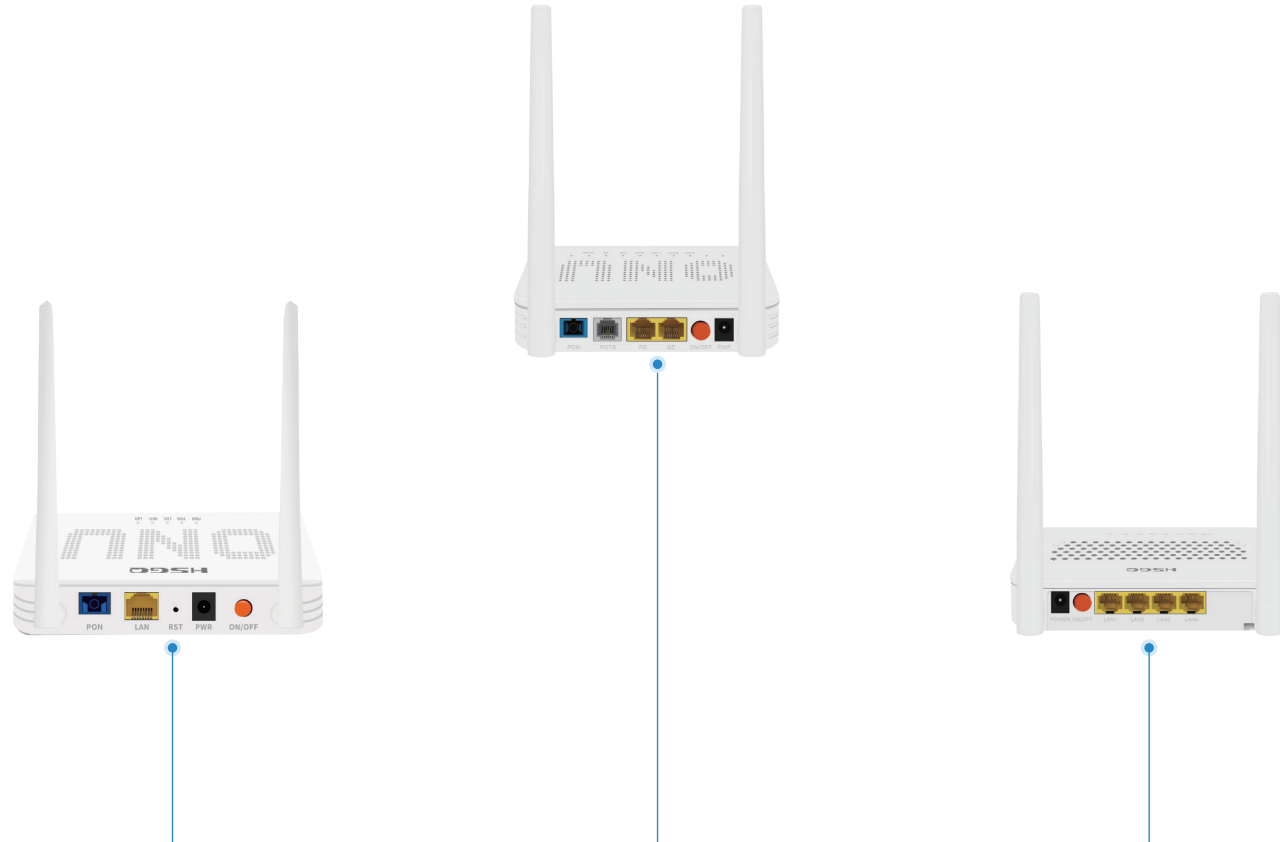
Easy Management:
Remote Management via App



Model	HSGQ-TI31AX	HSGQ-X210AXFD	HSGQ-X400AXF	HSGQ-X411AXF
Size	186mm*136mm*33.5mm			
PON Ports	1*XGS PON	1*EPON & GPON Mode Adaptive		
User Ports	1*2.5GE+3*GE+1*POTS+1*USB	2*GE+1*POTS	4*GE	4*GE+1*POTS+1*USB
Button	Power ON/OFF, Reset, WPS			
Power Supply	DC 12V/2A	DC 12V/1.5A		
Wi-Fi	Wi-Fi 6: AX3000(2.4G: 574Mbps, 5G: 2402Mbps)			
Transmission Distance	20km Max			
Working Temperature	0°C~45°C			



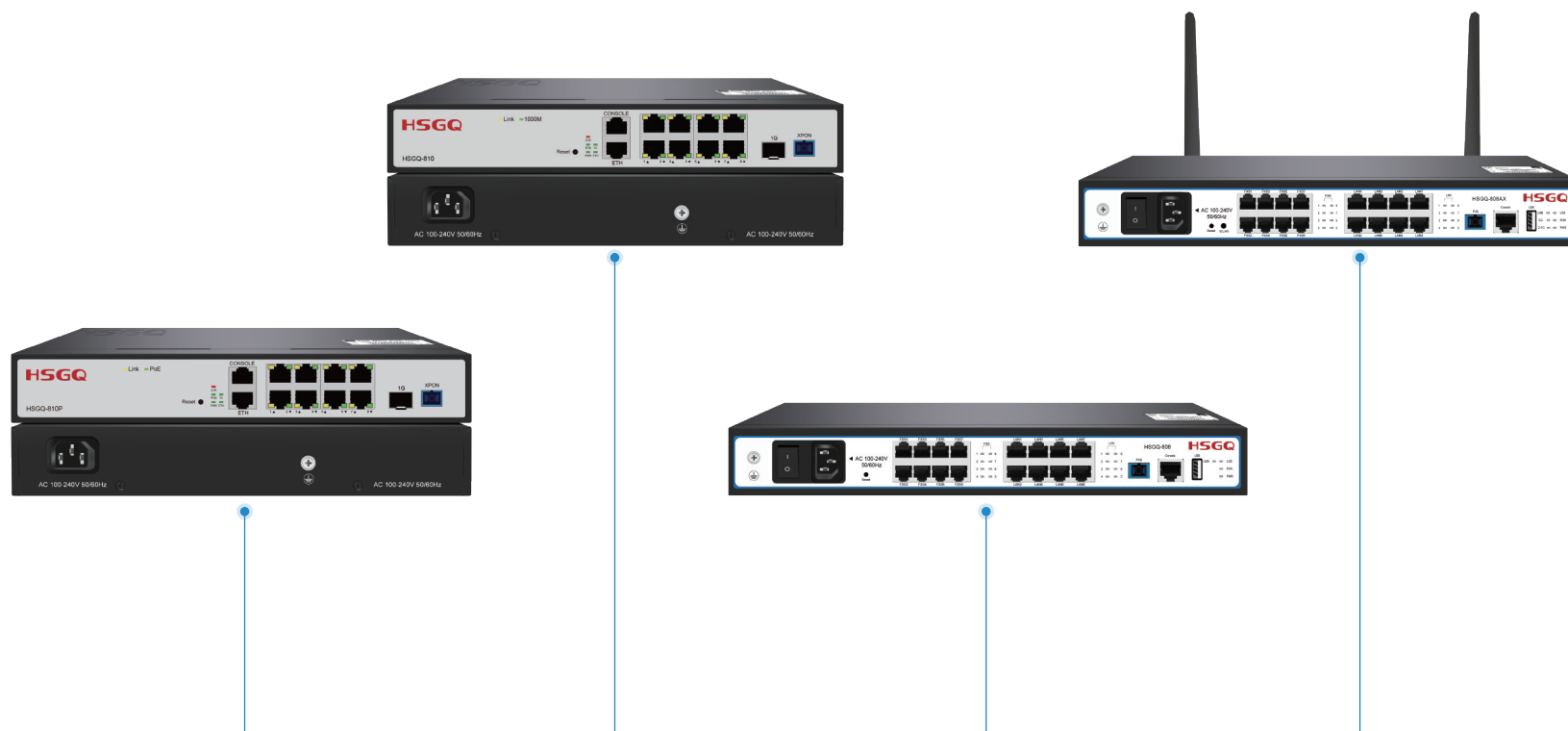
Model	HSGQ-X400DW	HSGQ-X411DW	HSGQ-X411DWC
Size	160mm*110mm*30mm		186mm*136mm*33.5mm
PON Ports	1*EPON & GPON Mode Adaptive		
User Ports	4*GE	4*GE+1*POTS+1*USB	4*GE+1*POTS+1*USB+1*CATV
Button	Power ON/OFF, Reset, WPS	Power ON/OFF, Reset, WPS, Wi-Fi	Power ON/OFF, Reset, WPS
Power Supply	DC 12V/1.5A		
Wi-Fi	Wi-Fi 5: AC1200(2.4G:300Mbps, 5G:867Mbps)		
Transmission Distance	20km Max		
Working Temperature	0°C~45°C		



Model	HSGQ-X100W3	HSGQ-X111W	HSGQ-X130W
Size	130mm*85mm*30mm		140mm*118.5mm*30mm
PON Ports	1*EPON & GPON Mode Adaptive		
User Ports	1*GE	1*GE+1*FE+1*POTS	1*GE+3*FE
Button	Power ON/OFF, Reset		
Power Supply	DC 12V/1A		
Wi-Fi	Wi-Fi 4: 300Mbps		
Transmission Distance	20km Max		
Working Temperature	0°C~45°C		

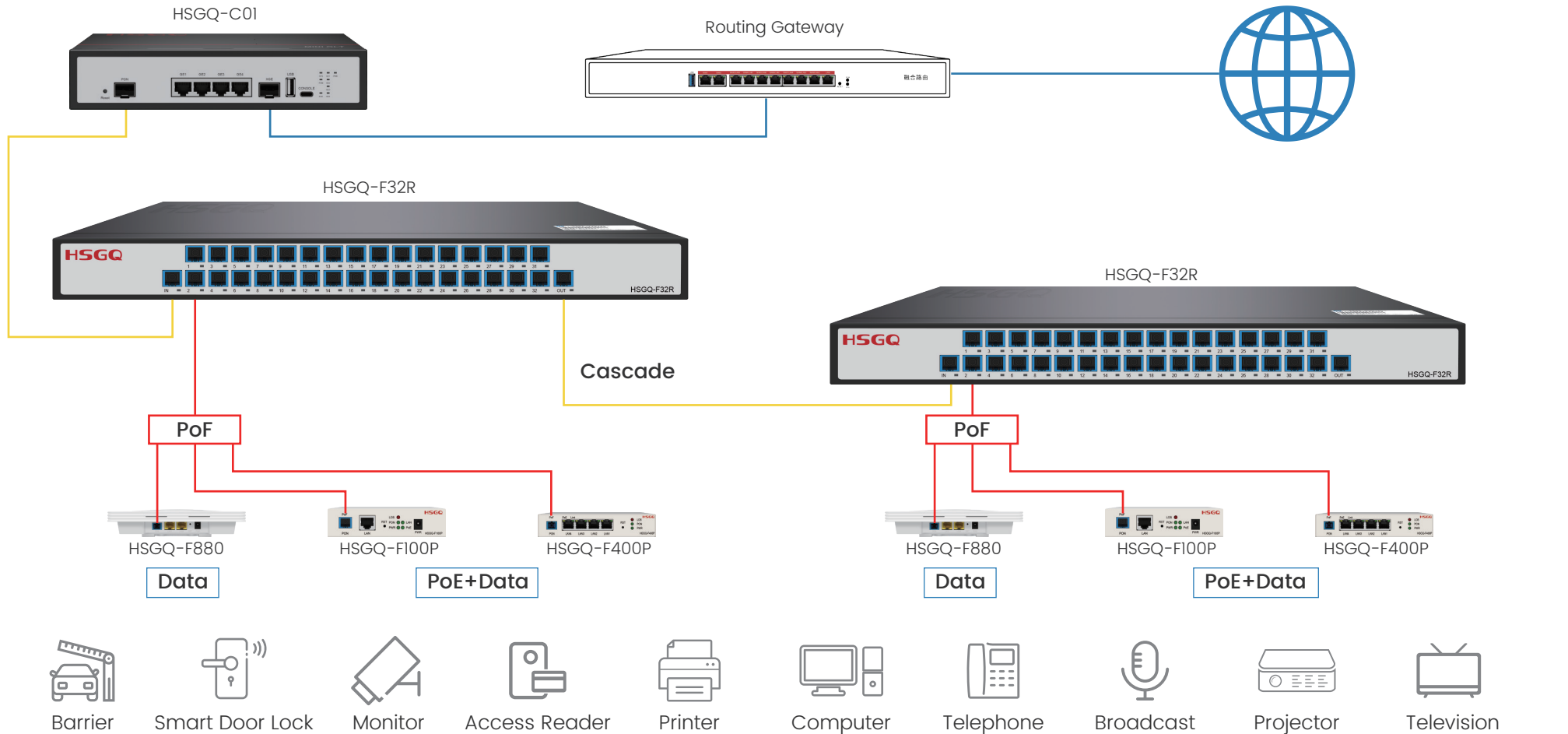


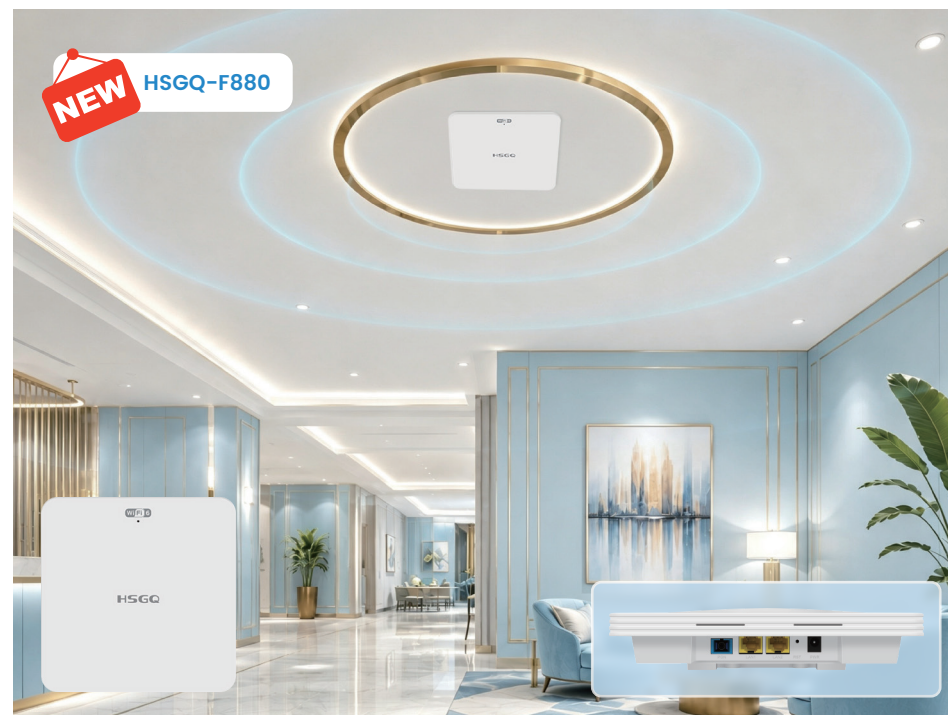
Model	HSGQ-X100DG	HSGQ-T110	HSGQ-T130
Size	79mm*79mm*22mm	160mm*112mm*31mm	
PON Ports	1*EPON & GPON Mode Adaptive	XGS-PON	
User Ports	1*GE	1*10GE+1*GE	1*10GE+3*GE
Button	Power ON/OFF, Reset		
Power Supply	DC 12V/0.5A	DC 12V/1A	
Transmission Distance	20km Max		
Working Temperature	0°C~45°C		



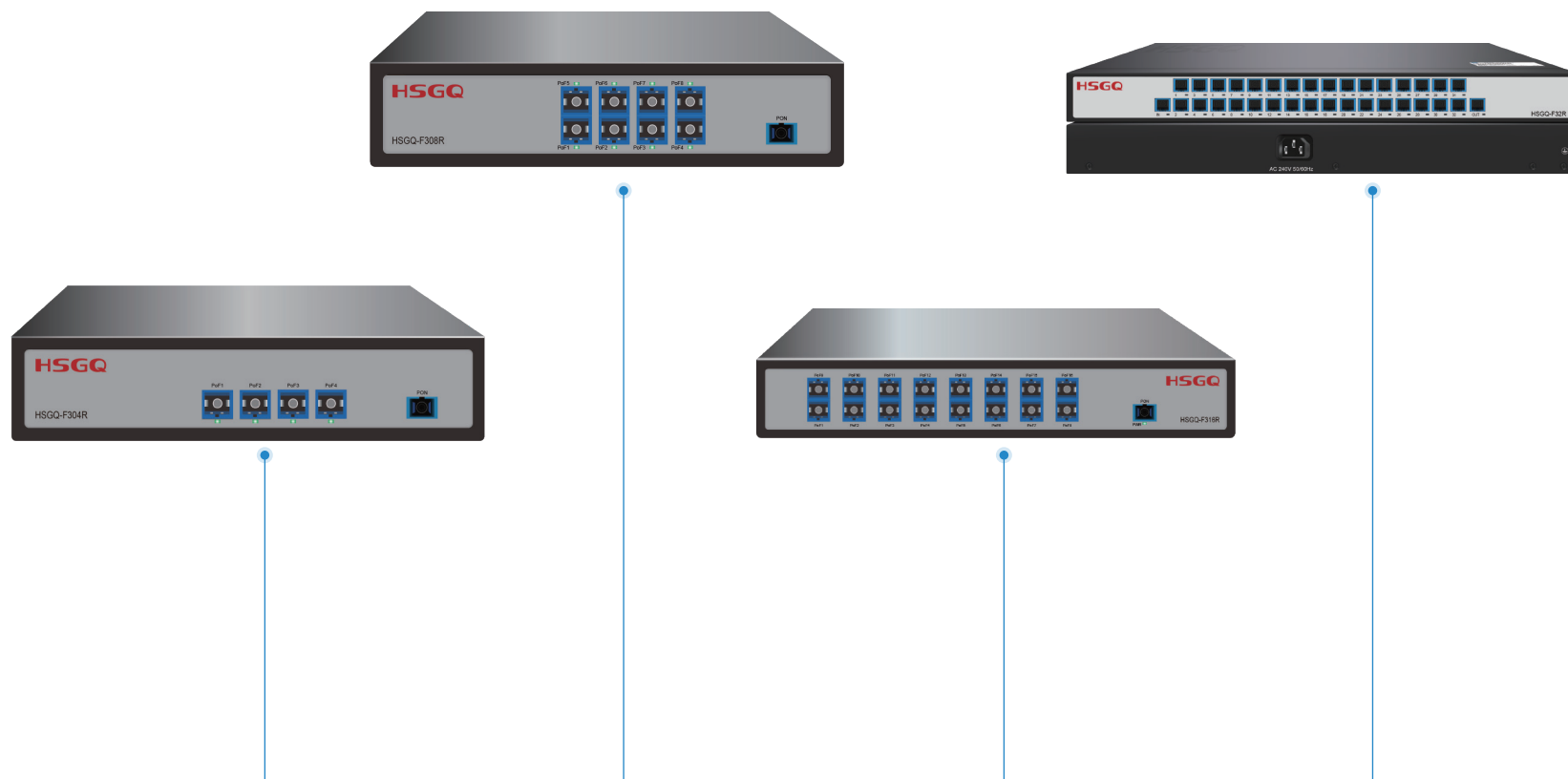
Model	HSGQ-810P	HSGQ-810	HSGQ-808	HSGQ-808AX
Size	286mm*192mm*44mm		342mm*211mm*43.6mm	
PON Ports	1*EPON & GPON Mode Adaptive			
User Ports	8*10/100/1000M(PoE)	8*10/100/1000M	8*10/100/1000M+8*POTS+1*USB	
PoE Port	PoE IEEE802.3af/at 1-8 (120W)	/		
SFP Slots	1*1.25G SFP		/	
Management Port	1*CONSOLE/1*ETH		1*CONSOLE	
Power Supply	AC 100-240V		AC 220V	
Wi-Fi	/			Wi-Fi 6: AX3000 (2.4G: 574Mbps, 5G: 2402Mbps)
Transmission Distance	20km Max			
Working Temperature	-10°C~60°C			

Fiber Optic Cable ———
Network Cable ———
Photoelectric Composite Cable ———



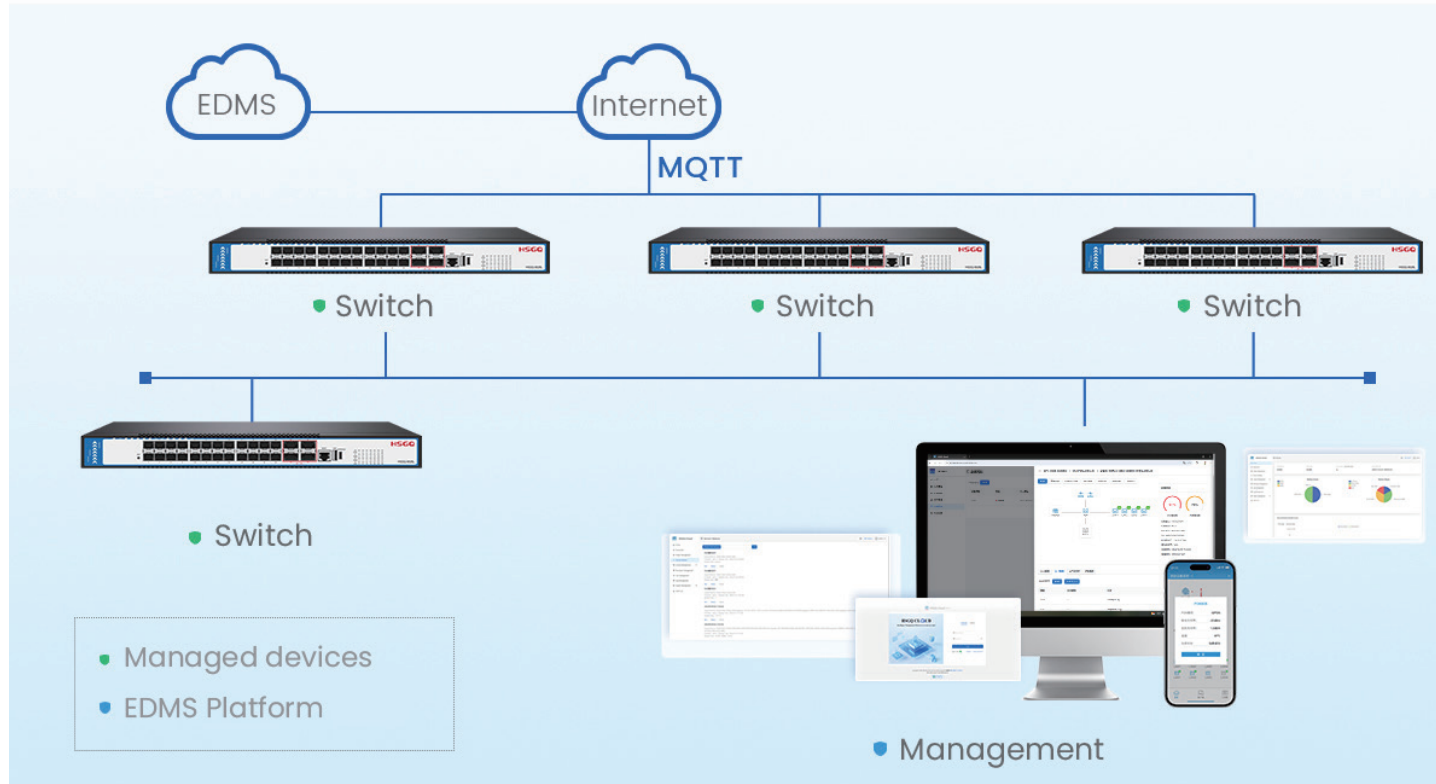


Model	HSGQ-F100P	HSGQ-F400P	HSGQ-F856	HSGQ-F880
Size	119mm*85mm*28mm	147mm*106mm*27mm	183mm*129mm*37mm	188mm*188mm*43mm
PON Ports	1*EPON & GPON Mode Adaptive			
User Ports	1*GE (PoE+)	4*GE (PoE+)	1*2.5GE(PD, AT), 3*GE+1*POTS+1*USB	1*GE (PD, AT), 1*GE
Button	Reset		Wi-Fi, Reset	Reset
Power Supply	PoF/DC48V-54A		PoF/PoE/DC 12V-2A	PoF/DC 12V-2A
Wi-Fi	/		Wi-Fi 6: AX3000(2.4G: 574Mbps, 5G: 2402Mbps)	
PoE Power	30W	60W	/	
PoF Transmission Distance	150 meters			
Working Temperature	-10℃~65℃		0℃~45℃	

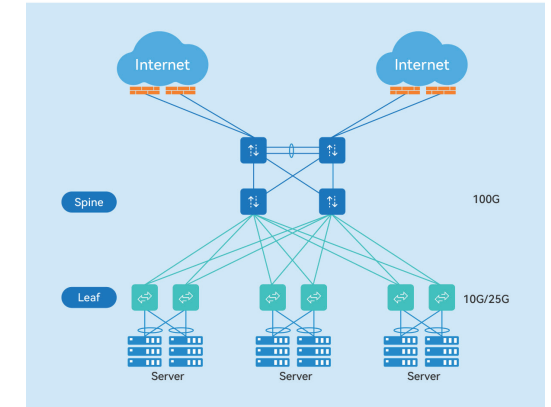


Model	HSGQ-F304R	HSGQ-F308R	HSGQ-F316R	HSGQ-F32R
Size	198mm*119mm*44mm		270mm*182mm*44mm	445mm*310mm*44mm
PON Input Port	1*PON (IN)			
PoF Port	4*PoF SC (OUT)	8*PoF SC (OUT)	16*PoF SC (OUT)	32*PoF SC (OUT)
Cascade Port	/			1*PON (OUT)
Power Supply	AC 100~240V, 65W	AC 100~240V, 120W	AC 100~240V, 260W	AC 100~240V, 800W
Working Temperature	-20°C~60°C			-10°C~50°C

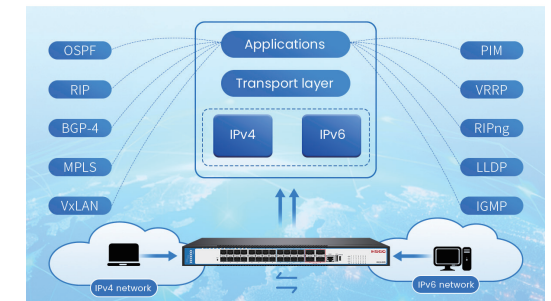
EDMS Cloud



Spine-Leaf Data Center Network Solution



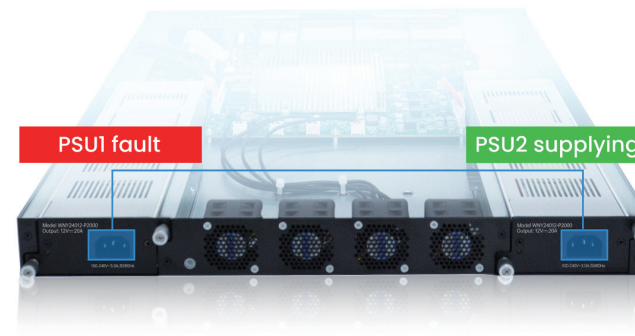
L3 Network Protocol



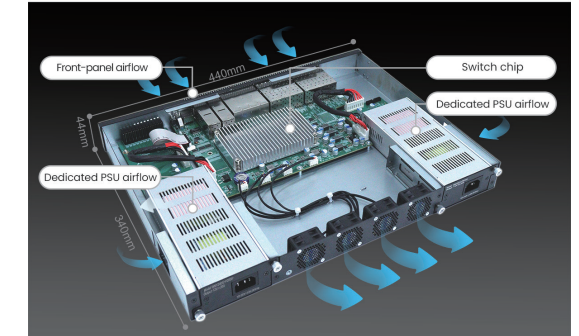
Front and rear ventilation design

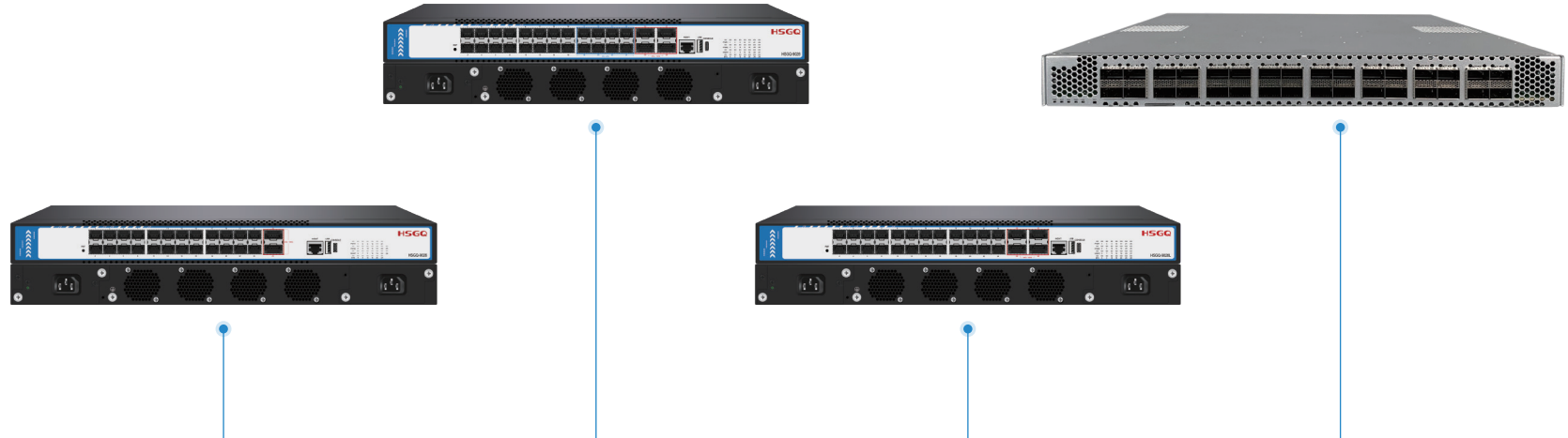


Dual-power supply redundancy design

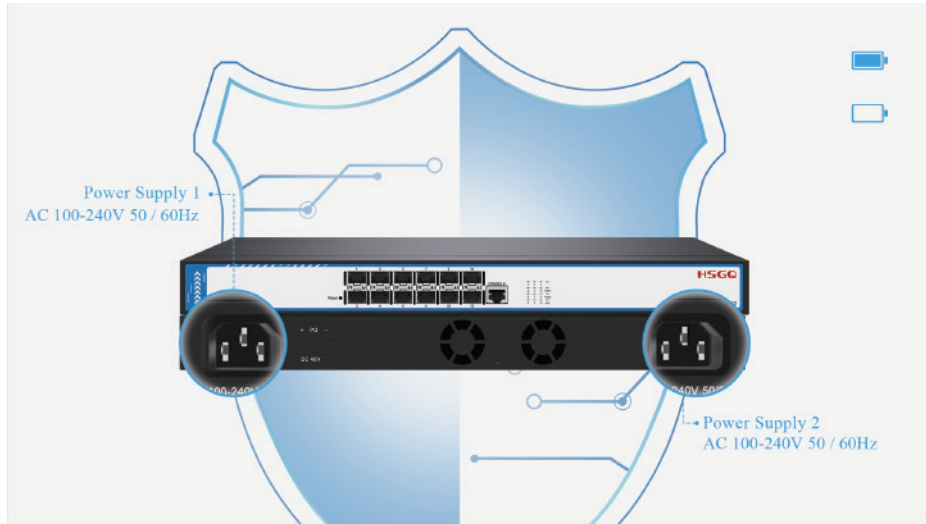


Hardware Design



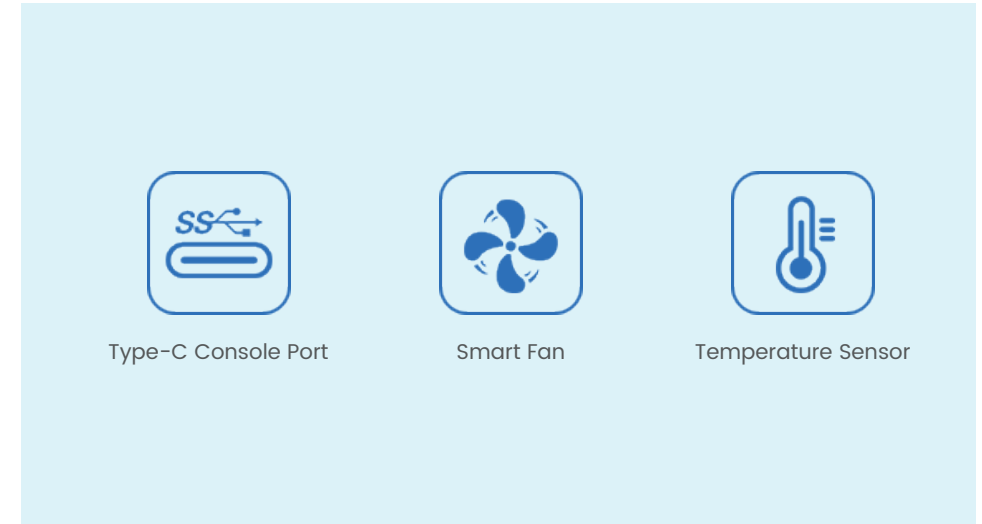


Model	HSGQ-9026	HSGQ-9028	HSGQ-9028L	HSGQ-9B32
Fiber Slots	24*10G SFP+ 2*40G/100G QSFP28	16*10G SFP+ 8*25G SFP28 4*40G/100G QSFP28	24*10G SFP+ 4*40G/100G QSFP28	32*40G/100G QSFP28
Management Ports	1*Type-C Console Port, 1*MGMT RJ45 Port			
Total Power Consumption	240W			800W
Size	440mm*340mm*44mm			440mm*470mm*44mm
Switching Capacity	880 Gbps	1.52 Tbps	1.28 Tbps	6.4 Tbps
Packet Forwarding Rate	660 Mpps	1140 Mpps	960 Mpps	2800 Mpps
Power Input	Optional: 2 hot-swappable AC 100-240V power supplies			CRPS Dual Power Supply
Operating Temperature	-10°C~45°C			0°C~45°C
Temperature Sensor/Smart Fan	Built-in 4 smart fans; Temperature sensors			5 hot-swappable fan modules
Management Methods	Console, MGMT, SNMPv1/v2c/v3, MQTT, HTTP/HTTPS, Telnet, SSH2.0			
L3 Protocols	Layer 3 routing protocols, IPv4/IPv6 dual stack, static routing, RIP, RIPng, OSPFv2/v3, BGP-4 dynamic routing, VRRP redundancy, DHCP, PIM, IGMP Snooping, MPLS, stacking, and the EDMS cloud management platform. Data center features include: EVPN, VxLAN, M-LAG, PFC, ECN, GRE, VRF, MPLS, sFlow, and support for RoCE v2 lossless networking.			



Redundancy Design

Default single power supply, optional dual power supply configuration, support for dual AC input. Provide flexible power supply options to meet different application requirements, enhance power redundancy, ensure seamless switching in the event of power failure, and ensure continuous network availability.



Easy Configuration:

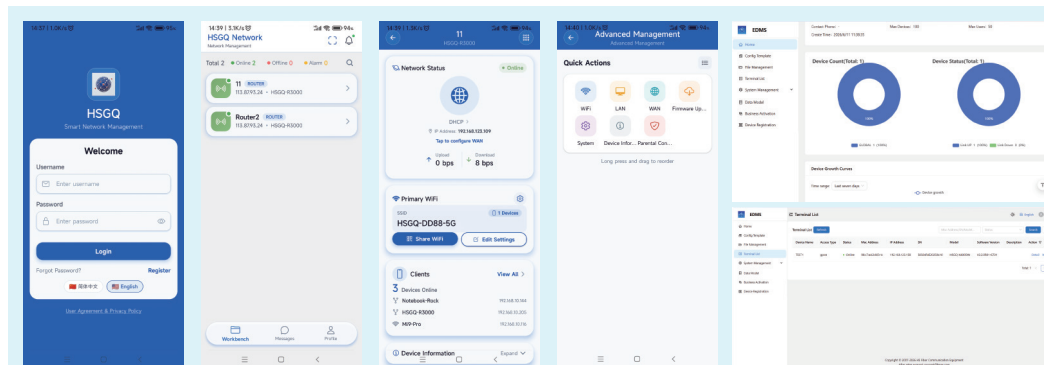
Utilizes Type-C Console management for easier device configuration and management.

Smart Fan:

Equipped with a smart fan to achieve energy saving and emission reduction.

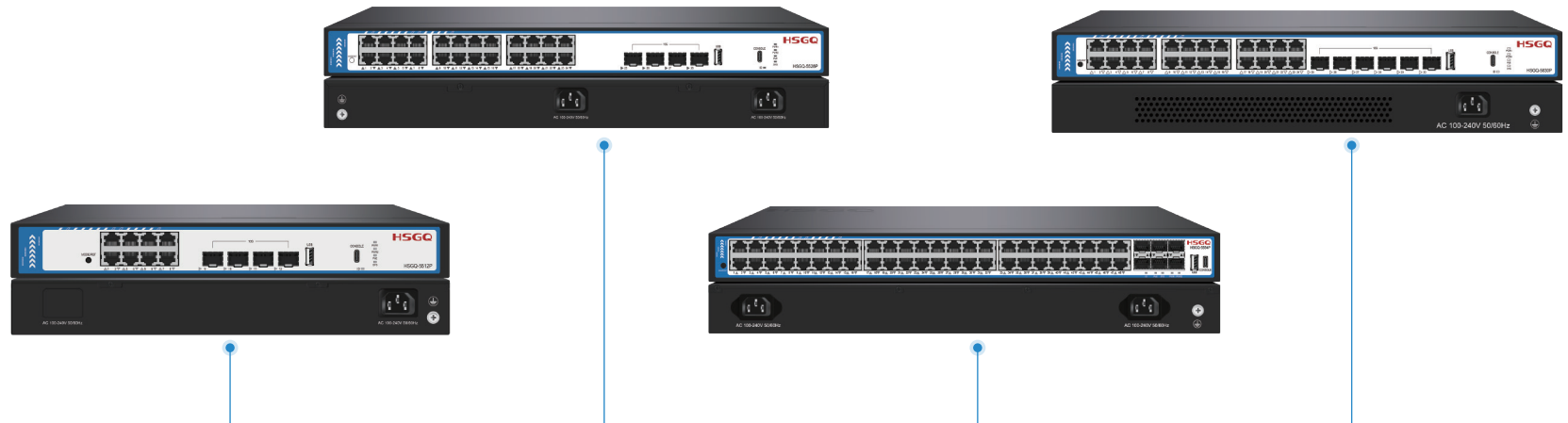
Status Reporting:

Supports device temperature sensors for real-time temperature data acquisition and reporting.

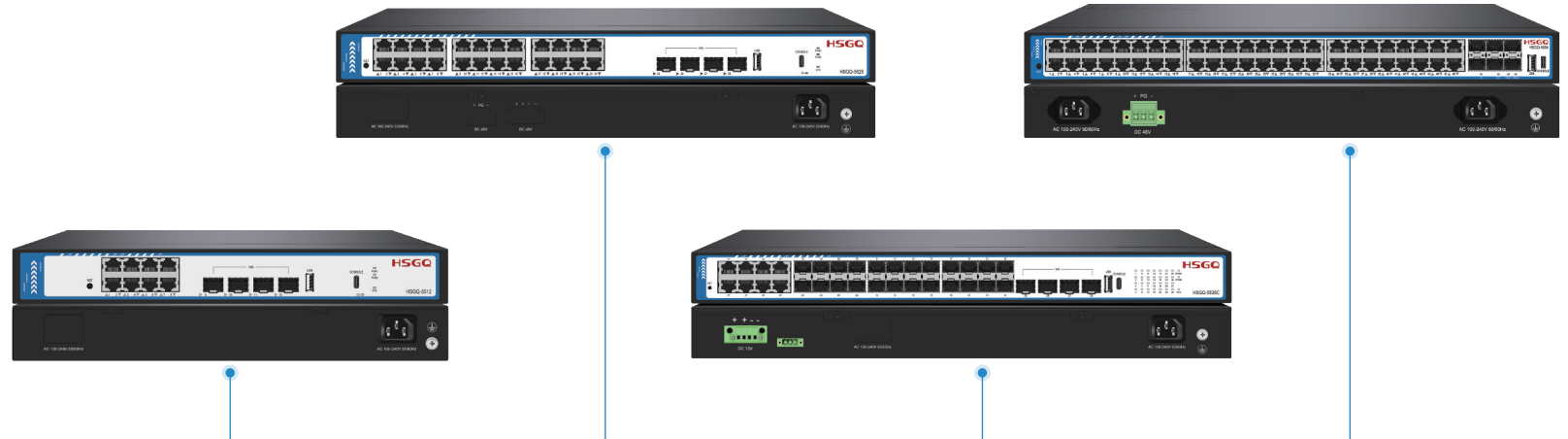


HSGQ EDMS / HSGQ APP

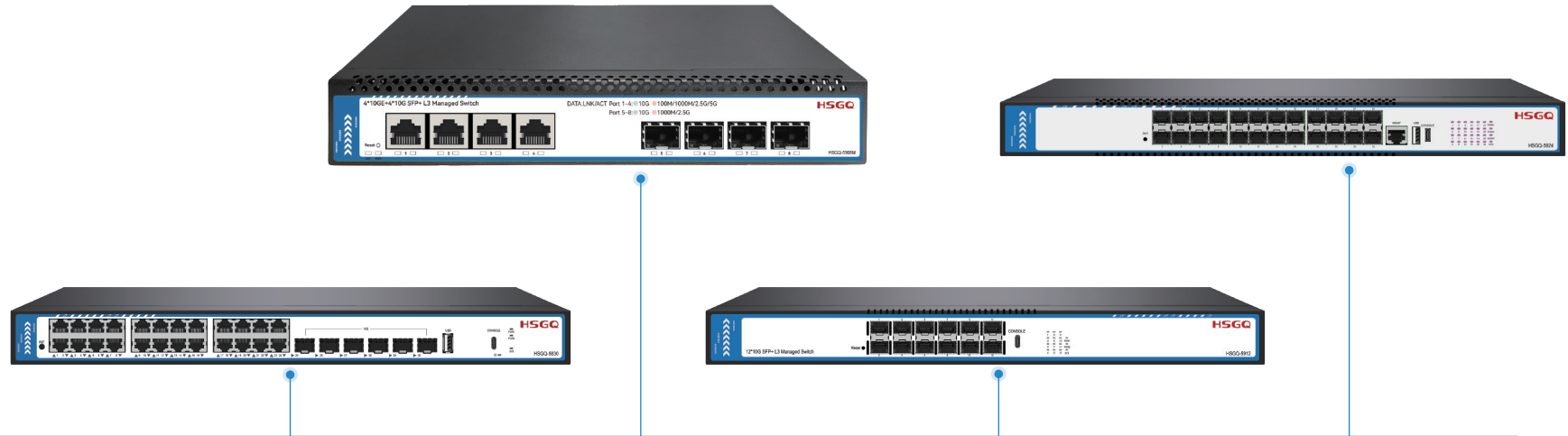
HSGQ EDMS (Edge Device Management System) is a new generation of converged device management system independently developed by HSGQ. This system is designed to use the MQTT protocol to manage Switches and OLT central office equipment, and the TR-069 protocol to manage ONUs and Routers and other terminal devices. This creates a one-stop management solution from the central office to the terminal devices.



Model	HSGQ-5512P	HSGQ-5528P	HSGQ-5554P	HSGQ-5830P
RJ45 Port	8*GE(PoE)	24*GE(PoE)	48*GE(PoE)	24*2.5GE(PoE)
SFP Slot	4*10G SFP+		6*10G SFP+	
Management Port	1*Type-C Console Port			
PoE Port	IEEE802.3af/at (1-8 Port)	IEEE802.3af/at (1-24 Port)	IEEE802.3af/at (1-48 Port)	IEEE802.3af/at (1-24 Port)
Power Consumption	150W	420W	800W	420W
PoE Power	120W	370W	600W	370W
Size	330mm*240mm*44mm	440mm*261mm*44mm	440mm*340mm*44mm	440mm*261mm*44mm
Switching Capacity	96 Gbps	128 Gbps	216 Gbps	240 Gbps
Forwarding Rate	72 Mpps	96 Mpps	161 Mpps	180 Mpps
Input Power	Optional AC100-240V dual power supply			
Working Temperature	-10°C~55°C			
Temperature sensor/Smart Fan	Built-in 1 fan Optional temperature sensor	Built-in 2 fans Optional temperature sensor	Built-in 4 fans Optional temperature sensor	Built-in 3 fans Optional temperature sensor
Management Protocol	Console, SNMPv1/v2c/v3, MQTT, HTTP/HTTPS, Telnet, SSH 2.0			
Product Features	IEEE 802.3af/at, PD-Alive, PoE Schedule, IPv4/IPv6 dual protocol stack, static routing, RIP, RIPvng, OSPFv2/v3, BGP-4 dynamic routing, VRRP redundancy, DHCP, PIM, IGMP Snooping, MPLS, MQTT, and EDMS cloud management platform.			



Model	HSGQ-5512	HSGQ-5528	HSGQ-5536C	HSGQ-5554
Product Description	8*GE+4*10G SFP+ L3 Managed Switch	24*GE+4*10G SFP+ L3 Managed Switch	16*SFP+8*Combo(8*GE/8*SFP) +4*10G SFP+ L3 Managed Switch	48*GE+6*10G SFP+ L3 Managed Switch
RJ45 Port	8*GE	24*GE	8*Combo	48*GE
SFP Slot	4*10G SFP+	4*10G SFP+	24*SFP 4*10G SFP+	6*10G SFP+
Management Port	1*Type-C Console Port			
Power Consumption	30W		96W	45W
Size	330mm*240mm*44mm	440mm*261mm*44mm		440mm*340mm*44mm
Switching Capacity	96 Gbps	128 Gbps		216 Gbps
Forwarding Rate	72 Mpps	96 Mpps		161 Mpps
Input Power	Optional AC+DC (12V/48V) dual power supply			
Working Temperature	-10℃-50℃			
Temperature sensor/Smart Fan	Fanless design Optional temperature sensor	Built-in 1 fan Optional temperature sensor	Built-in 1 fan Optional temperature sensor	Built-in 1 fan Optional temperature sensor
Management Protocol	Console, SNMPv1/v2c/v3, MQTT, HTTP/HTTPS, Telnet, SSH 2.0			
L3 Protocol	IPv4/IPv6 dual protocol stack, static routing, RIP, RIPng, OSPFv2/v3, BGP-4 dynamic routing, VRRP redundancy, DHCP, PIM, IGMP Snooping, MPLS, MQTT, and EDMS cloud management platform.			



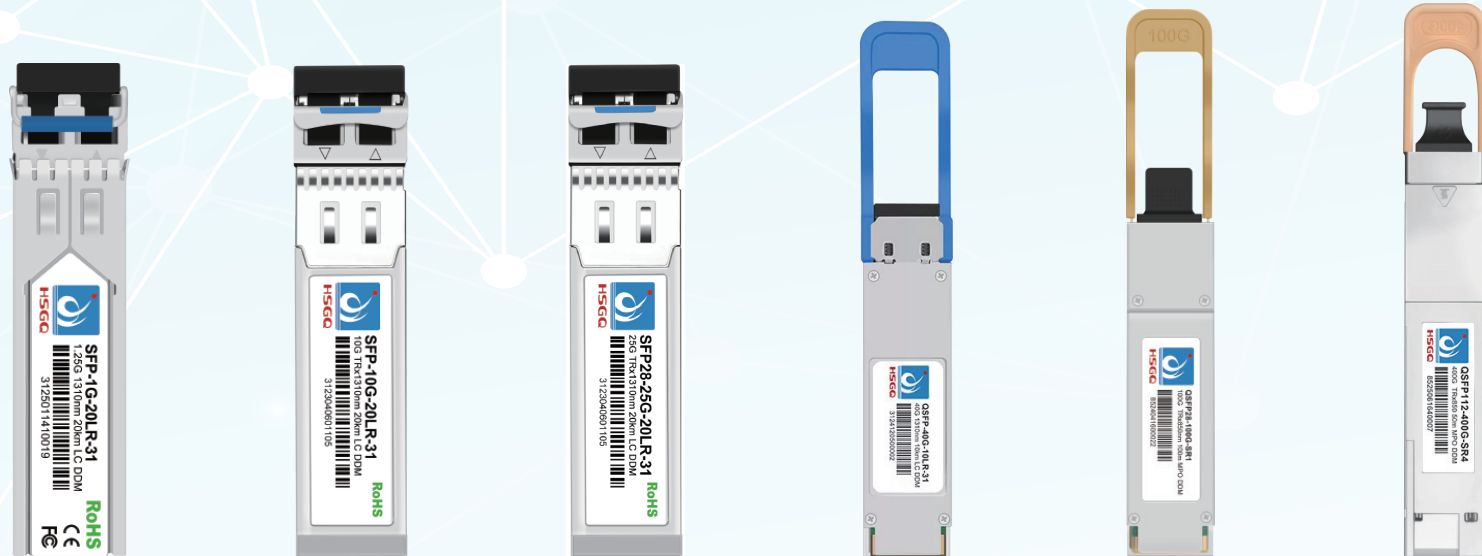
Model	HSGQ-5830	HSGQ-5908M	HSGQ-5912	HSGQ-5924
Product Description	24*2.5GE+6*10G SFP+ L3 Managed Switch	4*10GE+4*10G SFP+ L3 Managed Switch	12*10G SFP+ L3 Managed Switch	24*10G SFP+ L3 Managed Switch
RJ45 Port	24*2.5GE	4*10GE	/	/
SFP Slot	6*10G SFP+	4*10G SFP+	12*10G SFP+	24*10G SFP+
Management Port	1*Type-C Console Port	/	1*Type-C Console Port	1*Type-C Console Port 1*MGMT RJ45 Port
Power Consumption	45W	36W	35W	150W
Size	440mm*261mm*44mm	220mm*130mm*38mm	440mm*261mm*44mm	440mm*261mm*44mm
Switching Capacity	240 Gbps	160 Gbps	240 Gbps	480 Gbps
Forwarding Rate	180 Mpps	120 Mpps	180 Mpps	360 Mpps
Input Power	Dual AC+DC (12V/48V) power supply available	External power adapter DC12V-3A	Optional AC+DC (12V/48V) dual power supply	Optional AC+DC (12V/48V) dual power supply
Working Temperature	-10°C~50°C	0°C~40°C	-30°C~65°C	-10°C~50°C
Temperature sensor/Smart Fan	Built-in 1 fan Optional temperature sensor	Built-in 1 fan	Built-in 2 smart fans Temperature sensor	Built-in 3 smart fans Temperature sensor
Management Protocol	Console, SNMPv1/v2c/v3, MQTT, HTTP/HTTPS, Telnet, SSH 2.0			
L3 Protocol	IPv4/IPv6 dual protocol stack, static routing, RIP, RIPvng, OSPFv2/v3, BGP-4 dynamic routing, VRRP redundancy, DHCP, PIM, IGMP Snooping, MPLS, MQTT, and EDMS cloud management platform.			



Model	HSGQ-5912BP	HSGQ-7912
Product Description	12*10G SFP+ L3 Managed Bypass Switch	12*10G SFP+ L3 Managed Industrial Switch
SFP Ports	12*10G SFP+	
Management Port	1*Type-C Console Port	
Power Consumption	35W	
Size	440mm*261mm*44mm	445mm*193mm*44mm
Switching Capacity	240 Gbps	
Forwarding Rate	180 Mpps	
Power Input	AC 100-240V 50/60Hz; Industrial Phoenix Connector DC 12V/DC48V	AC 100-240V 50/60Hz(Support AC+AC)
Working Temperature	-30°C~65°C	-40°C~75°C
Temperature Sensor/Smart Fan	Built-in dual smart fans; Temperature sensor.	Fanless design; Temperature sensor.
Management Method	Console, SNMPv1/v2c/v3, MQTT, HTTP/HTTPS, Telnet, SSH 2.0	
Key features	ERPS 10 Gigabit ring network, ERPS convergence time < 20ms. IPv4/IPv6 dual protocol stack, static routing, RIP, RIPng, OSPFv2/v3, BGP-4 dynamic routing, VRRP redundancy, DHCP, PIM, IGMP Snooping, MPLS, MQTT, and EDMS cloud management platform.	



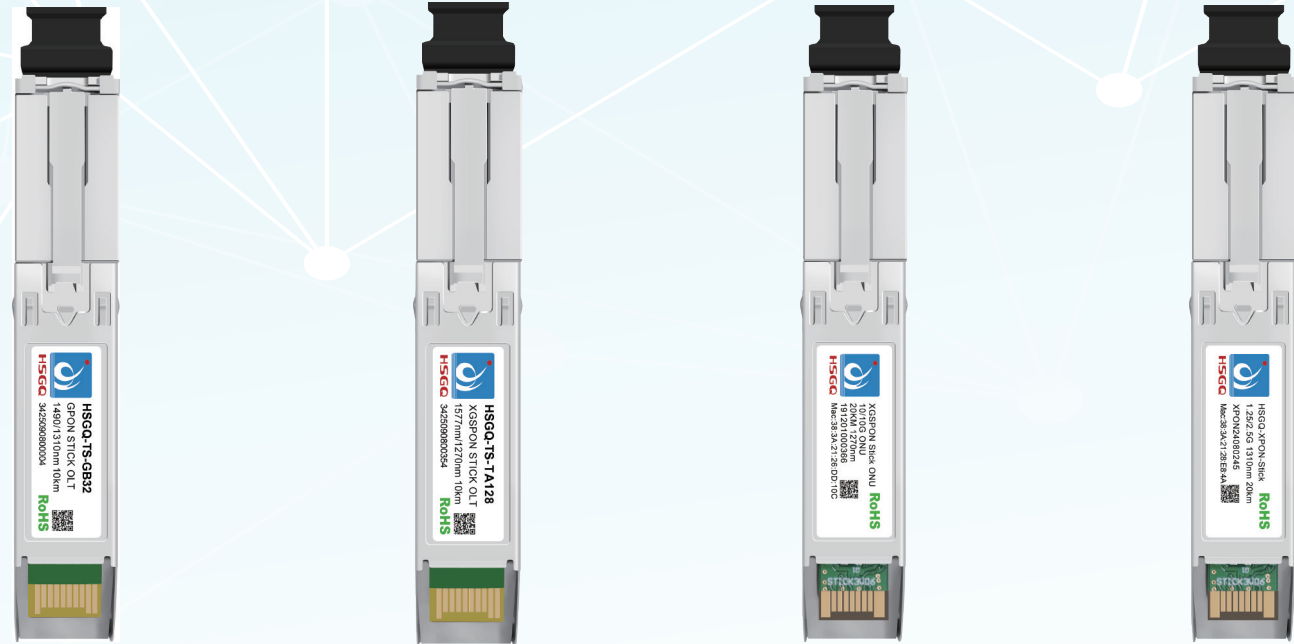
Model	HSGQ-3308M	HSGQ-3512	HSGQ-3510S
Product Description	4*GE+4*SFP L2+ Managed Switch	8*GE+2*SFP+2*10G SFP+ L2+ Managed Switch	8*SFP+2*10G SFP+ L2+ Managed Switch
RJ45 Port	4*GE	8*GE	/
SFP Slot	4*SFP	2*SFP 2*10G SFP+	8*SFP 2*10G SFP+
Management Port	1*Type-C Console Port		
Power Consumption	20W		
Size	285mm*192mm*44mm		
Switching Capacity	16 Gbps	60 Gbps	56 Gbps
Forwarding Rate	12 Mpps	45 Mpps	42 Mpps
Input Power	Standard configuration includes AC+DC 12V dual power supply		
Working Temperature	-10°C~50°C		
Temperature sensor/Smart Fan	Fanless design Supports temperature sensor		
Management Protocol	Console, SNMPv1/v2c/v3, MQTT, HTTP/HTTPS, Telnet, SSH 2.0		
L2 Protocol	IPv4/IPv6 dual protocol stack, static routing, DHCP Server, DHCP Relay, DHCP Snooping, IGMP Snooping, STP/RSTP/MSTP, ERPS, Jumbo Frame, loop detection, LLDP, LACP, ACL, SNMPv1/v2c/v3, MQTT, and EDMS cloud management platform.		



Series	SFP Series	SFP+ Series	SFP28-25G Series	SFP28-40G Series	QSFP28-100G Series	QSFP-DD/QSFP-112 400G
Transmission Rate	155M~3.125Gbps	10.312Gbps	25.78Gbps	41.2Gbps	100Gbps	400Gbps
Wavelength	850nm/1310nm/1270nm/1330nm/1490nm/1550nm/CWDM					
Fiber Type	/				Multi-Mode	Single-Mode
Package Type	SFP	SFP+	SFP28	QSFP+	QSFP-28	QSFP-DD/QSFP-112
Transmission Distance	550m~120km	300m~110km	100m~40km	100m~80km		50m~40km
Connector Type	LC/SC				MTP/MPO-12	Duplex LC
DDM	Support					
Working Temperature	0°C~70°C or -40°C~85°C				0°C~70°C	



Model	HSGQ-PX20+++	HSGQ-C+++
Type	EPON OLT Module	GPON OLT Module
Continuous Mode	1490nm 1.25Gbps DFB Transmitter	1490nm 2.5Gbps DFB Transmitter
Burst Mode	1310nm 1.25Gbps APD-TIA Receiver	
Output Power	2.5dBm~10dBm	
Transmission Distance	20km Max	
Working Temperature	0°C~70°C or -40°C~85°C	



Model	HSGQ-TS-GB32	HSGQ-TS-TA128	HSGQ-XGSPON-STICK	HSGQ-XPON-STICK
Type	GPON OLT STICK	XGS-PON OLT STICK	XGS-PON STICK ONU	XPON STICK ONU
Transmission Rate	GPON: 1.25Gbps/2.5Gbps	XGS-PON: 9.953Gbps/9.953Gbps	XGS-PON: 9.953Gbps/9.953Gbps	GPON/EPON: 1.25Gbps/2.5Gbps
Mode	GPON	XGS-PON	XGS-PON	GPON/EPON
Split Ratio	1:32	1:128	/	
Transmission Distance	10km Max	20km Max		
Wavelength	TX 1490nm; RX 1310nm	TX 1577nm; RX 1270nm	TX 1270nm; RX 1577nm	TX 1310nm; RX 1490nm
Operating Temperature	0°C~70°C or -40°C~85°C			



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