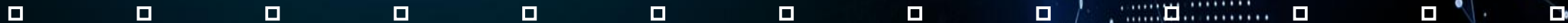




# H S G Q

Shenzhen HS Fiber Communication Equipment Co., Ltd  
深圳市鸿升光通讯设备有限公司

*Beyond the fiber, Beyond the world.*



# Company Introduction

01

Shenzhen HS Fiber Communication Equipment Co., Ltd





# Company



Shenzhen HS Fiber Communication Equipment Co.,Ltd, also known as **HSGQ**, established in 2007 and headquartered in Shenzhen, China. HSGQ focuses on the **research and development, production, sales, and service of optical fiber communication equipments.**

Currently, our product line covers **GPON/EPON OLT , GPON/EPON ONU, Switch, Router, Media Converter and SFP modules.**

Based on **ISO9001** quality system, HSGQ holds a number of industry utility model patents and computer software copyright registrations and has obtained numerous authoritative test certifications from multiple countries, such as **CE, RoHS, POSTEL, BIS, Anatel** etc.



**Intelligent Cloud Management、 FTTR、 All-optical Network Equipment Manufacturer**

# Company Overview



Established in **2007**, Shenzhen, China.



**200+ workers**

30% R&D team, 25% sales team, 5% managers, 40% producing team.



**7000m<sup>2</sup> factory**

1000M<sup>2</sup> office, dozens of automatic equipments,  
more than 2,000 clients over 70 countries.



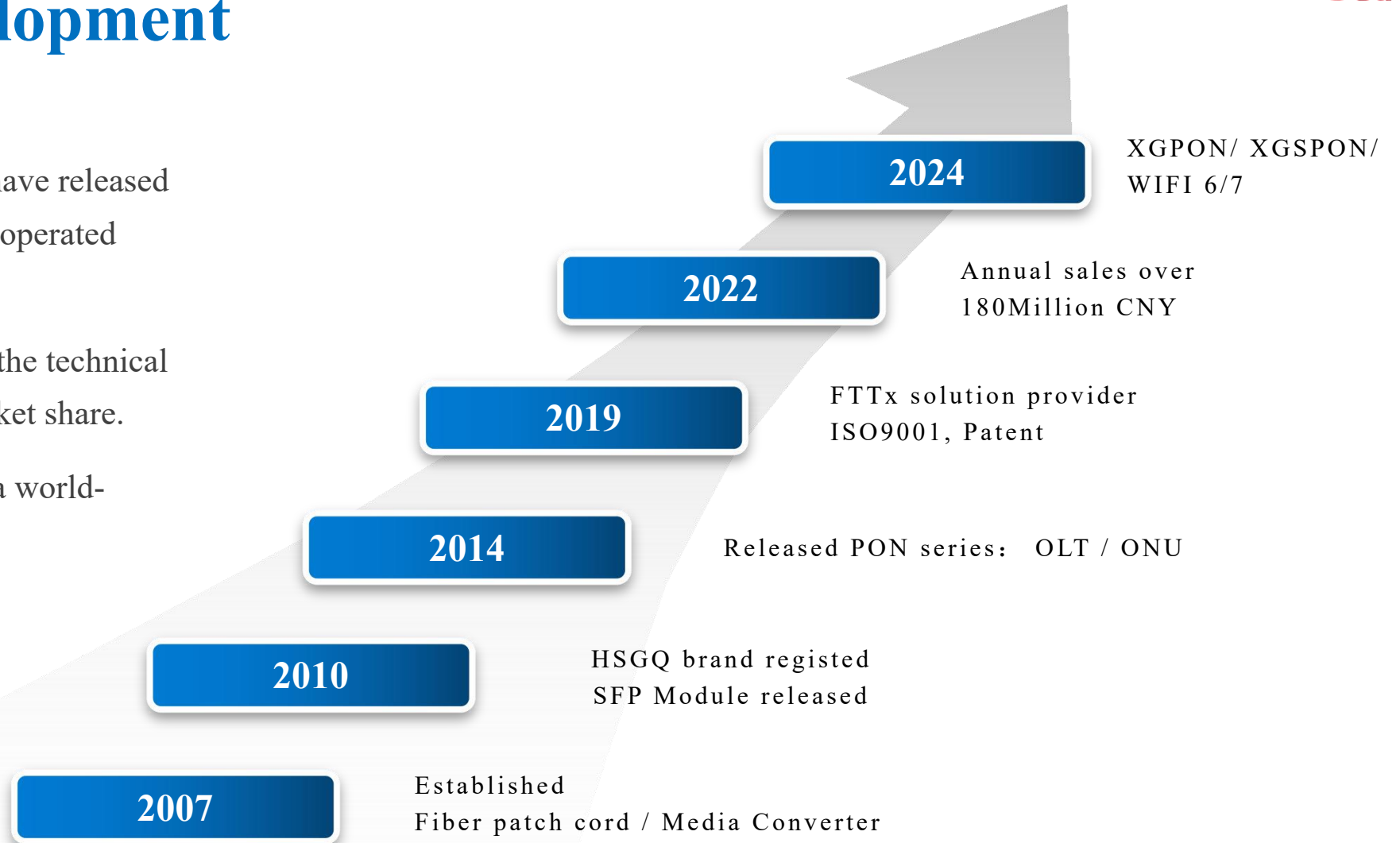


# 16 Years Development

During the past 16 years, we have released many popular products and cooperated with many good partners.

We work together to improve the technical support, R&D major, and market share.

We hope to build HSGQ into a world-renowned brand.



More about HSGQ:

Enterprise

# Development path

Take technology as the guide



CONTINUE TO INNOVATE  
AND LOOK TO THE FUTURE



Shenzhen HS Fiber Communication Equipment Co., Ltd. was established in 2007 and is headquartered in Shenzhen, a frontier city in science and technology. It is a high-tech enterprise focusing on the research and development, production, sales and service of optical fiber communication equipment. It is also a global leader in optical communication equipment. Market innovators and application technology pioneers in the field of optical network interconnection.



## 2007 Set sail

- 2007— HSGQ was established
- Launched media converters and high-definition video optical transceiver products



## 2010-2012 Explore

- 2010— Established its own trademark brand HSGQ, and was rated as a recommended brand for safe city construction in China in 2010
- 2012— The company passed the ISO9001 quality management system certification and possesses the "Telecom Equipment Network Access License"



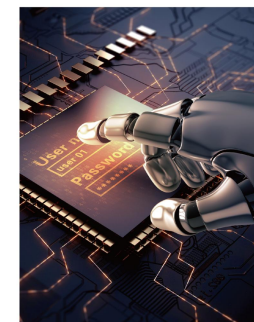
## 2014-2017 Innovate

- 2014— Establishment of optical module production line, R&D and mass production of Pon modules, PON Stick and 1.25G, 10G, 25G SFPs.
- 2015— Established PON product R&D team and began to launch OLT and ONU series products
- 2017— Owned 5 patents and 21 software copyrights



## 2019 Break through

- 2019— Gain "High-tech Enterprise Certificate", "Intellectual Property Management System Certification", "Quality Management System Certification Certificate", "Environmental Management System Certification Certificate", "Brand Certification Certificate", 3 3C certification certificates, CE certification certificate



## 2021-2022 Development

- 2021— Has 63 domestic patents and 1 overseas patent including 33 invention patents 30 design patents 11 domestic registered trademarks 10 overseas registered trademarks Annual sales reached 200 million RMB
- 2022— The company won the honorary title of National High-tech Enterprise

## 2023-2024 New Journey

- 2023— 10G PON ONU, WiFi 6 ONU product release, XG-PON/XGS-PON OLT product technology pre-research Cloud platform version 1.0 released Moved to a new factory, continued to expand production lines, and established a dust-free production workshop
- 2024— R&D and production of 10G OLT, switches, and WiFi 7





# Efficient Automatic Machine (part)



automatic feeding machine



SMT workshop



DIP workshop



BOB & PCBA testing



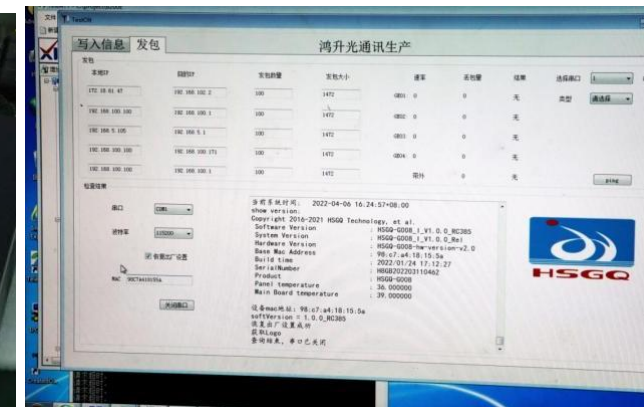
assembling line



Ageing test

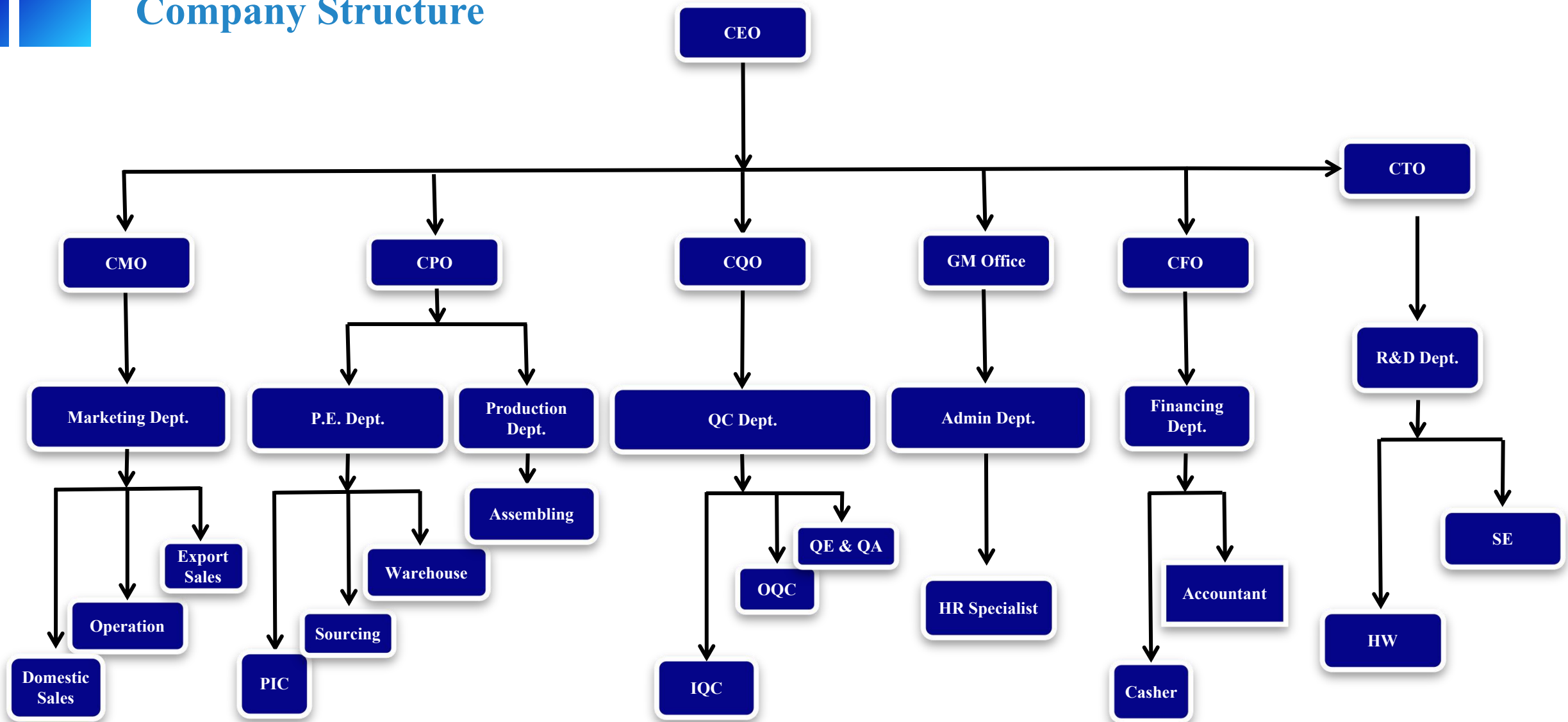


performance test



Info writing

# Company Structure

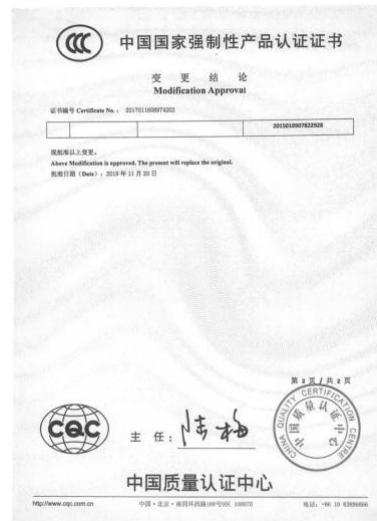
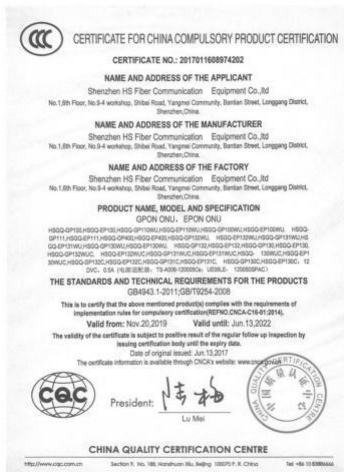
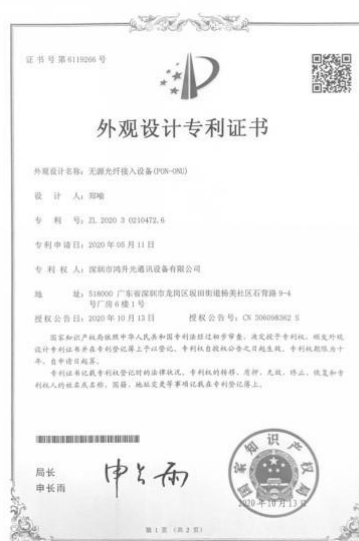
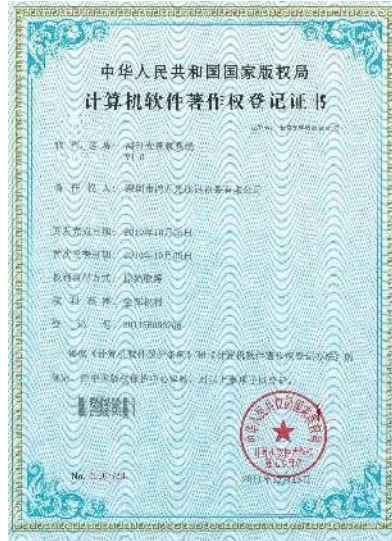








# Patents and Software Copyrights





# Products & Solutions

## 02

Shenzhen HS Fiber Communication Equipment Co., Ltd

## Main products

HSGQ main produces including OLT (Optical Line Terminal), ONU (Optical Network Unit), SFP module (Optical Module), and switch. The following products are HSGQ's own appearance patents and software copyrights.

- VOIP
- 2.4G
- 2.4G&5.8G
- CATV
- POE
- Wifi 6

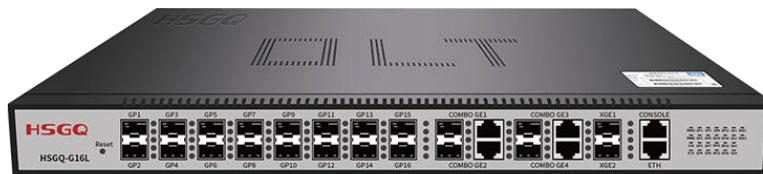


ONU



Router

- 1WAN Port
- 3GE LAN
- AC1200
- AX3000



OLT

- 8/12/24/48 Port
- 10G/ 2.5GE
- L2/L3
- POE switch
- Commercial
- Industrial



Switch

- 1/2/4/8/16 port
- GPON
- EPON

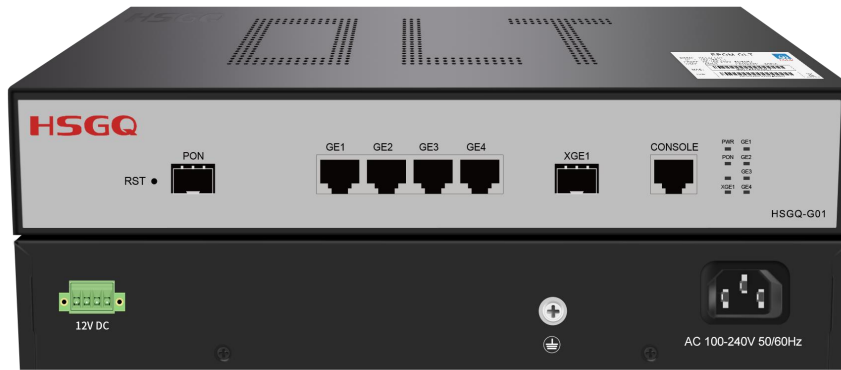


SFP Module

- G/EPON PON
- 1.25G SFP
- 10G SFP+
- 25G SFP28

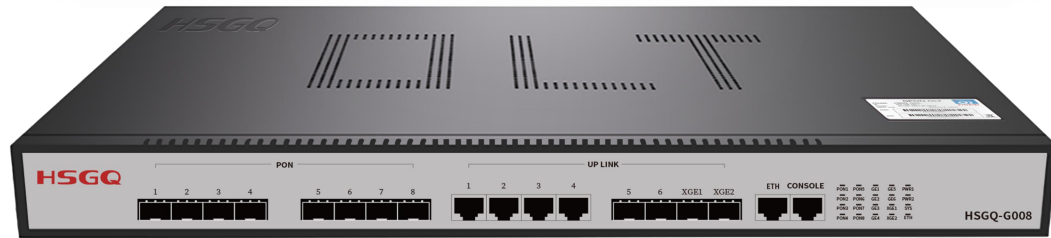
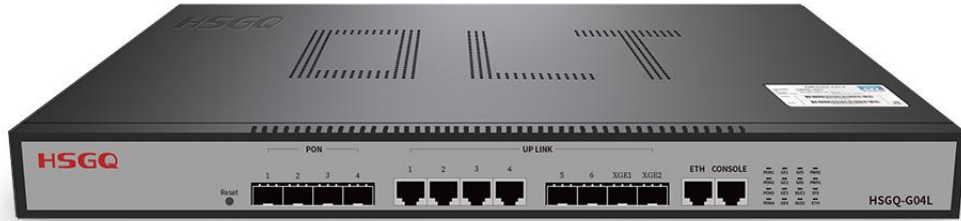


# GPON OLT



Model	G01	G02
Layer	2	2
GPON Port	1	2
RJ45 Port Uplink(GE)	4	4
10G SFP+ Uplink	1	1
Power supply	AC+DC	AC+DC
Console	1	1

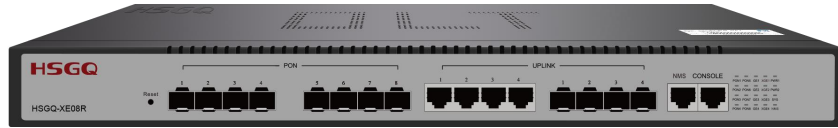
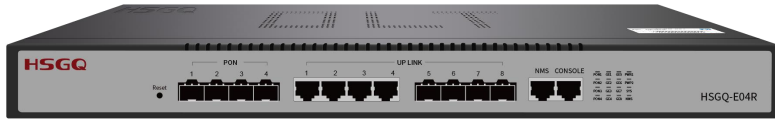
# GPON OLT



Model	G04L	G08L	G16L
Layer	3		
GPON Port	4	8	16
RJ45 Port Uplink(GE)	4	4	/
1.25G SFP Uplink	4	4	/
Combo GE uplink	/	/	4
10G SFP+ Uplink	2		
Power supply	AC / DC/AC+AC / AC+DC		
ETH (GE)	1		
Console	1		



# EPON OLT



Model	E04R	E08R	XE04R	XE08R	XE04S
Layer	3				
EPON Port	4	8	4	8	4
RJ45 Port Uplink(GE)	4				12
1.25G SFP Uplink	4		/	/	/
10G SFP+ Uplink	/	/	4		
Power supply	AC / DC / AC+AC / AC+DC				
NMS (FE)	1				
Console	1				

# ONU ( Hot-sale model )



**1Ge**  
**HSGQ-X100DG**



**1Ge Wifi**  
**HSGQ-X100W2**



**1Ge+1Fe+1pot+CATV+ Wifi**  
**HSGQ-X111WC**



**1Ge+3Fe+USB+ Wifi**  
**HSGQ-X131WU**



**4Ge+1pot + Dual Wifi**  
**HSGQ-X410DW**

Model \ Features	GE	FE	VOICE	USB	WIFI	CATV	WPS
X100DG	1	/	/	/	/	/	/
X100W2	1	/	/	/	2.4G	/	/
X111WC	1	1	1	/	2.4G	1	1
X131WU	1	3	1	1	2.4G	/	/
X410DW	4	/	1	/	2.4G&5.8G	/	1



## ONU Wifi 6



4GE

2POTS

1\*USB 3.0

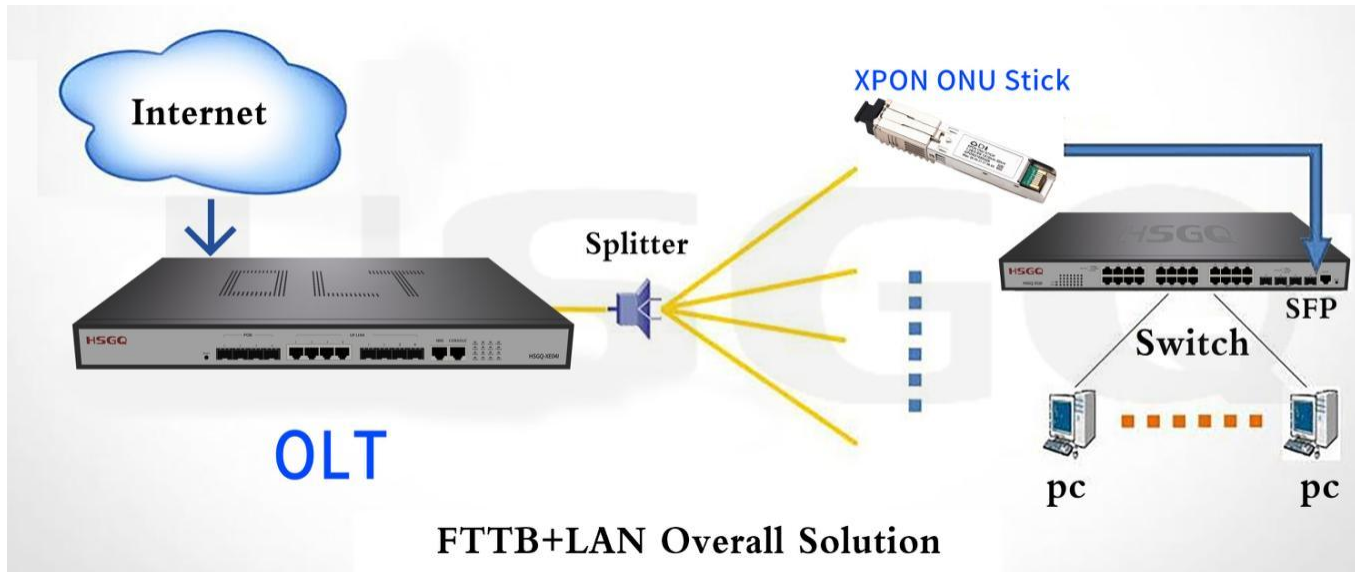
2.5G LAN

XPON

Wifi 6 AX3000

**HSGQ-X421AX**

# Switch

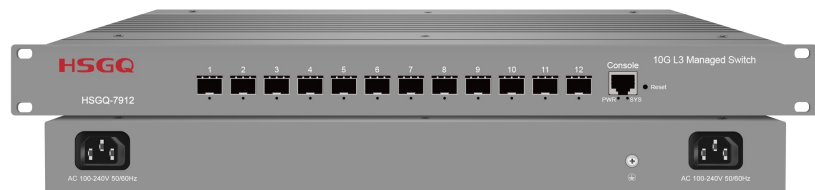


Features	Details
User Interface	24*GE RJ45+ 4*10G SFP+
Management	1*Console
Switching Capacibity	128Gbps
Forwarding Rate	95Mpps
Layer type	Layer 3
Stack	Not support





# Switch



Model Features	7912	5912	9026
User Interface	12*10G SFP+	12*10G SFP+	24*10G SFP+ 2*100G QSFP28
Management	1*Console	1*Console	1*Console
Switching Capacibility	240Gbps	240Gbps	880Gbps
Forwarding Rate	179Mpps	179Mpps	540Mpps
Layer type	Layer 3		
Stack	N/A		



# Switch



Model Features	7830	7830P
User Interface	24*2.5GE RJ45 6*10G SFP+	24*2.5GE RJ45 6*10G SFP+
Management	1*Console	1*Console
Switching Capacity	240Gbps	240Gbps
Forwarding Rate	179Mpps	179Mpps
Layer type	Layer 3	Layer 3
Stack	N/A	N/A
POE	N/A	IEEE 802.3at 30W each port



# Industrial POE ONU



Features Model	Power supply	POE type	PON mode	Working environment	Lan
HSGQ-843	External	POE+ 802.3at 30W each port	XPON	-40℃ ~ +75℃ (non-condensing)	4GE
HSGQ-844	Intergrated				

## Faceplate ONU



Features Model	LAN	VOICE	WIFI	PON Mode	Power supply
HSGQ-851	1GE	/	/	XPON	External 100-240V AC
HSGQ-852	2GE	/			
HSGQ-853	1GE	1 RJ11			
HSGQ-855	1GE	1 RJ11	2.4G		

## XGS PON ONU Stick



**HSGQ-XGSPON-STICK**

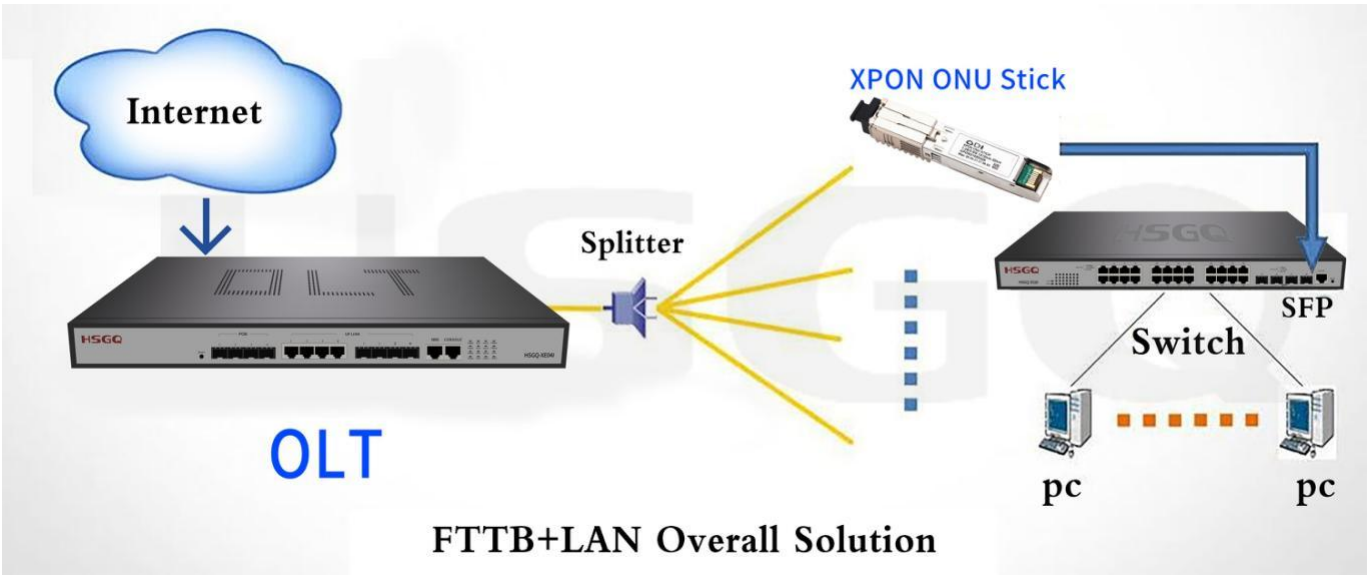
Items	Details
SFP standard	SFF-8431
DDM protocol	SFF-8472
PON type	XGS PON
Upstream	10G @Tx 1270nm
Downstream	10G @Rx 1577nm
Working environment	-20°C~70°C
Transmission distance	20KM



# XPON ONU Stick



HSGQ-XPON-STICK



Items	Details
SFP standard	SFP-8074i
DDM protocol	SFF-8472
PON type	XPON
Upstream	1.25G @Tx 1310nm
Downstream	2.5G @Rx 1490nm
Working environment	-40°C ~ +70°C (non-condensing)
Transmission distance	20KM

## Router

### Wifi 5



1WAN

3LAN

WPS

2.4&5.8G Wifi 5

AC1200

HSGQ-R1200

### Wifi 6



1WAN

3LAN

WPS

2.4&5.8G

AX3000

HSGQ-R3000

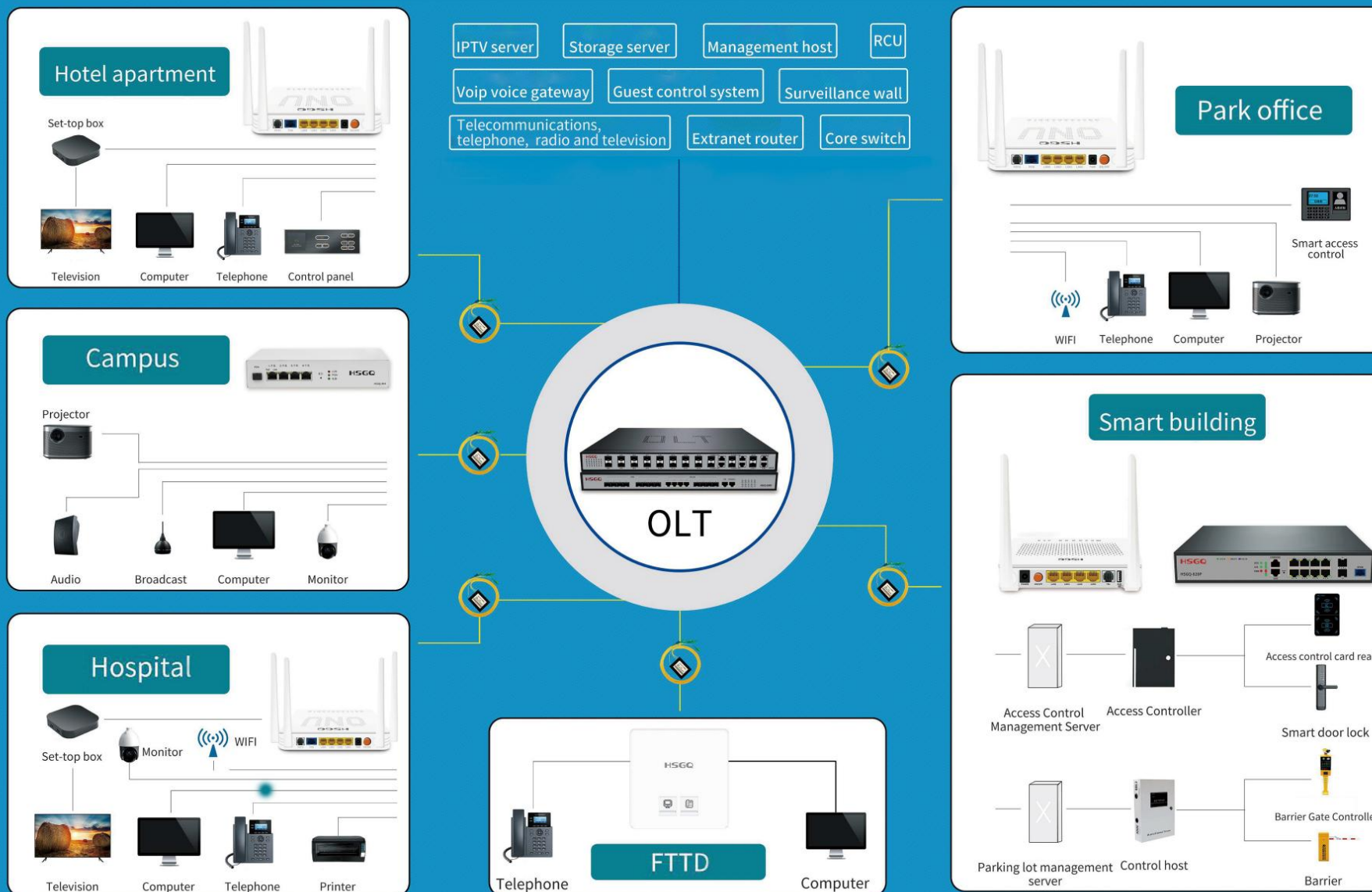
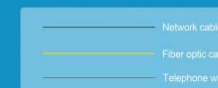
# SFP Transceiver ---155M/1.25G/10G/25G Series



	Multi mode				Single mode			
Model	Fiber	wavelength	distance	connector	Fiber	wavelength	distance	connector
155M	Dual	850nm	2km	LC	Single	1270-1610 optional	10-160km	Single LC/SC
1.25G			550m				10-120km	Dual LC
10G			300m		Dual	CWDM DWDM optional	10-80km	
25G		850nm	100m				10-80km	LC

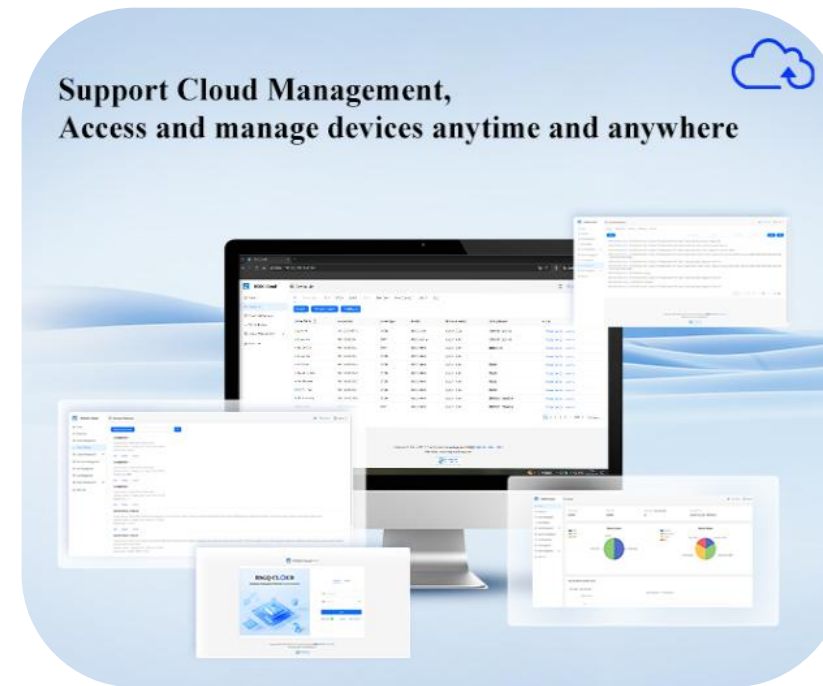


## Scenarios & Solutions



03

## Software



**HSGQ Cloud**

Manage your equipment  
Anywhere, Anytime, Any Device



**Connecting Freely**

Open to all third party equipments



**OTA**

Lifetime free firmware OTA



## Service



# Roadmap

04

Shenzhen HS Fiber Communication Equipment Co., Ltd



# Roadmap

2024

**XGS PON ONU with WiFi 6**  
**Stackable Switches**

2025

**10G EPON/XGS PON OLT**  
**XGS PON ONU with WiFi 7**

2026

**Combo PON OLT**



# HSGQ



# Thanks!

*Beyond the fiber, Beyond the world.*

