

# HG5855SH

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High Bandwidth | Smart O&M  
Smart Interconnection | Smart Service



## Overview

HG5855SH is a XGSPON BE7200 dual-band Wi-Fi 7 gateway for home. Downlink has 1 10GE port, 4 GE ports and VOIP port. It can meet the needs of over gigabit wired and wireless internet access, fixed phone, and other functions. HG5855SH also support smart and remote O&M, realizing simple deployment and management.



## Physical Parameters

Type	Instruction
Dimensions	193mm × 284mm × 54.5mm
Weight	1150g
Operating Temperature	-5°C~40°C
Storage Temperature	-20°C~70°C
Operating Humidity	10%~95%(no condensation)
System Power Supply	DC 12V, 3.0A
Power Adapter input	AC 100~240V, 50~60Hz
Power Consumption	Typical : 23W; Max : 28W
Ports	XGSPON+1*10GE+4*GE+2*POTS+Wi-Fi BE7200+2*USB
Indicators	Power/PON/LOS/Internet/Phone/USB/LAN/WLAN/WPS
Memory	256MB Flash, 512MB RAM

## Interfaces Parameters

Type	Instruction
XGSPON Port	XGSPON N2
	Receiver sensitivity: -28dBm
	Overload optical power: -8dbm
	Wavelengths: US 1270nm, DS 1577nm
	Supports ITU-T G.9807.1 standard
	Supports XGEM encapsulation & Ethernet over XGEM
	Flexible Mapping between XGEM and TCONT
	Bi-direction FEC and downlink FEC performance statistics
	SR-DBA or NSR-DBA, DBA piggy-back DBRu Mode 0
	Multiple encryption modes: unicast data channel, AES-128, OMCI channel, negotiation with OLT
Multiple authentication modes: SN, Password, SN + Password and LOID	

Type	Instruction
Ethernet Port	Supports the IEEE 802.1Q VLAN standard Ethernet port-based VLAN tags and tag removal
	1:1VLAN or VLAN transparent transmission, up to 4k VLAN
	Supports learning up to 1k MAC addresses
	Supports Layer 2 / Layer 3 wire-speed forwarding
	Supports bandwidth control granularity of 64 kbit/s

Type	Instruction
Wi-Fi Port	IEEE 802.11 b/g/n/ax/be (2.4G)
	IEEE 802.11 a/n/ac/ax/be (5G)
	Dual band: 2.4G(4*4MIMO) and 5G(4*4MIMO), 5G band 160MHz bandwidth
	8 SSIDs(4+4)
	Supports Open System, Shared Key,WPA, WPA2, WPA3, WPA-PSK, WPA2-PSK, WPA3-PSK and WPS Authentication
	Supports automatic selection and manual configuration of channels
	Theoretical air interface rate 1376 Mbit/s (2.4G), 5765 Mbit/s(5G)

Type	Instruction	Type	Instruction
POTS Port	Supports SIP protocol	USB	Compliant with the USB 3.0 standard
	G.711A/U, G.729A/B and G.722 encoding/decoding		
	DTMF detection and RFC 2833 for transmitting/receiving DTMF		FTP-based network storage

## Product Function

Type	Instruction
Smart O&M	OMCI/Web UI/TR-069
	Supports automatic service provisioning, management and software upgrade remotely based on OMCI/TR-069
	Supports delivering the XML configuration file via the TR-069
	Supports alarm synchronization and performance statistics

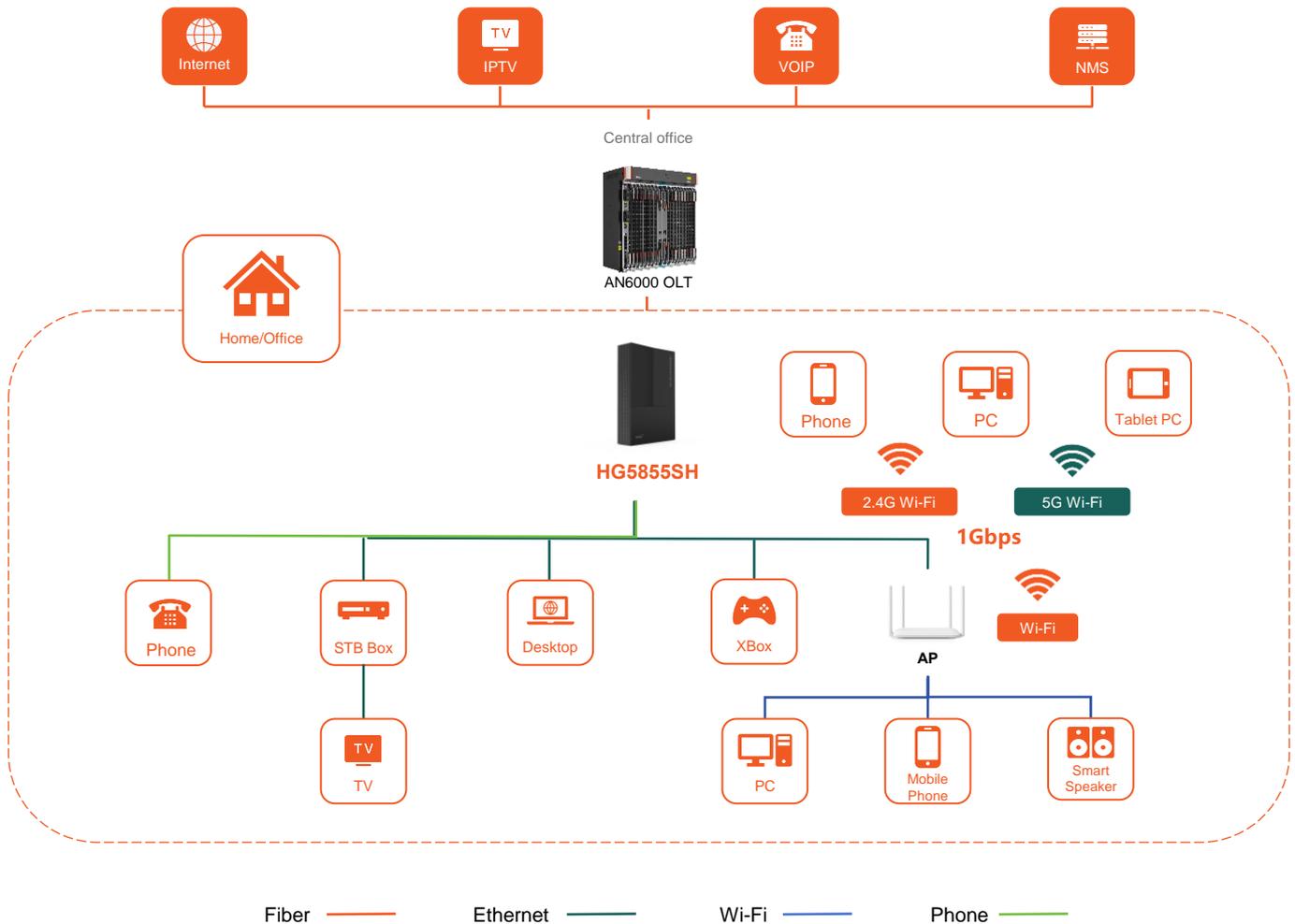
Type	Instruction
Smart Service	Triple play service: HIS, IPTV, Voice
	Flexible connection modes: Wire(GE/2.5GE/POTS) + Wi-Fi
	Powerful QoS: <ul style="list-style-type: none"> <li>• 802.1p Priority</li> <li>• SP/WRR/SP+WRR</li> </ul>

Type	Instruction
L3 Features	IPv4/IPv6 dual stack, and DS-Lite
	PPPoE/Static/DHCP
	NAT/NAPT
	DDNS/DNS Relay
	Static/default routes

Type	Instruction
Smart Interconnection	GE Port 100M/1000M auto-negotiation;10GE Port 1000M/10GE auto-negotiation
	IPv4/IPv6 auto-negotiation
	Easy to connect to other vendors' OLT
	Easy to connect to ACS by TR-069

Type	Instruction	Type	Instruction
Security	Anti-DoS attack	Multicast	IGMP v2/v3 snooping
	Firewall and ACL function		MLD v1/v2 snooping
	Filtering based on MAC/IP/URL address		Up to 256 multicast groups

# Networking Topology



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