

# HG6795H

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



## Overview

HG6795H is a GPON BE7200 dual-band Wi-Fi 7 gateway for home. Downlink has 1 2.5GE port, 4 GE ports and 2 VOIP ports. It can meet the needs of over gigabit wired and wireless internet access , fixed phone, and other functions. HG6795H also support smart and remote O&M, realizing simple deployment and management.



## Physical Parameters

| Type                  | Instruction                                   |
|-----------------------|---|
| Dimensions            | 193mm × 284mm × 54.5mm                        |
| Weight                | 1075g   |
| 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 : 22W; Max : 27W                      |
| Ports                 | GPON+1*2.5GE+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  |
|-------------------------------|--|
| GPON Port                     | Supports GEM encapsulation & Ethernet over GEM   |
|                               | Flexible mapping between GEM 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                          |
|                               | Class B+   |
|                               | Receiver sensitivity: -28dBm   |
|                               | Overload optical power: -8dbm  |
|                               | Wavelengths: US 1310nm, DS 1490nm  |
| Supports ITU-T G.984 standard |  |

| 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  |

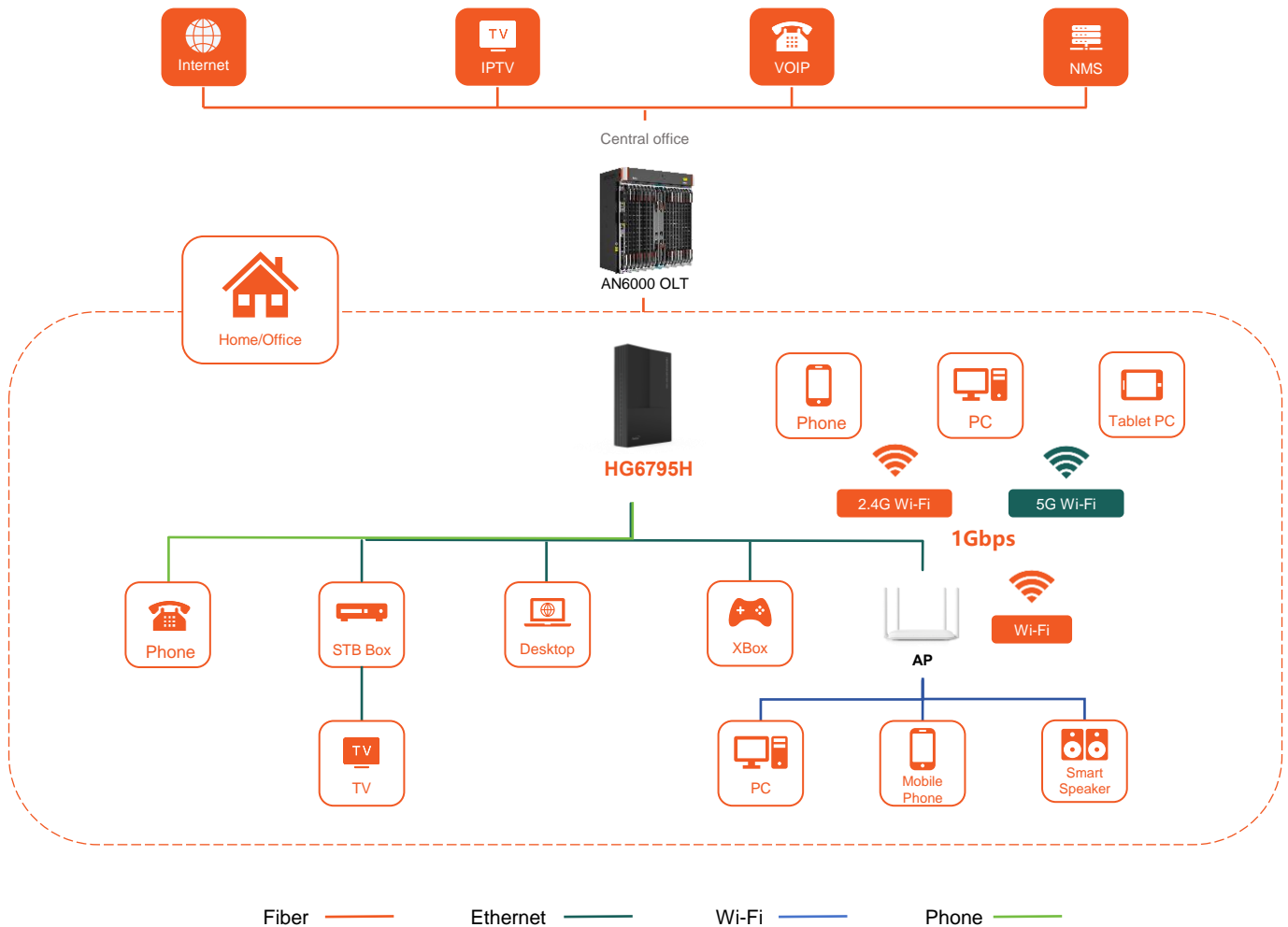
| Type          | Instruction  |
|---------------|--|
| Smart Service | Triple play service: HIS, IPTV, Voice  |
|               | Flexible connection modes: Wire(GE/2.5GE/POTS) + Wi-Fi   |
|               | Powerful QoS: <ul style="list-style-type: none"> <li>• 802.1p Priority</li> <li>• SP/WRR/SP+WRR</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 | Ethernet Port 100M/1000M auto-negotiation; 2.5GE Port 1000M/2.5GE 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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## FiberHome Telecommunication Technologies Co.,LTD.

Address: No.6, Gaoxin Lu, Donghu Gaoxin Industrial Park, Wuhan, Hubei, People's Republic of China  
 Website: <https://en.fiberhome.com>