

# HG6145D2

---

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



## Overview

HG6145D2 is a GPON AC1200 dual-band Wi-Fi 5 gateway for home. Downlink has 4 GE ports and VOIP port. It can meet the needs of wired and wireless internet access , fixed phone, and other functions. HG6145D2 also support smart and remote O&M, realizing simple deployment and management.



## Physical Parameters

Type	Instruction
Dimensions	36mm×171mm×123mm
Weight	About 350g
Operating Temperature	-5°C~45°C
Storage Temperature	-20°C~70°C
Operating Humidity	10%~90%(no condensation)
System Power Supply	DC 12V, 1.5A
Power Adapter input	AC 100~240V, 50~60Hz
Power Consumption	Typical : 7W; Max : 16W
Ports	GPON+4*GE+1*POTS+WiFi+2*USB
Indicators	Power/PON/LOS/Internet/WLAN/WPS/USB/LAN/Phone
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 4095 VLANs
	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 (2.4G)
	IEEE 802.11 a/n/ac (5G)
	Dual band: 2.4G(2*2MIMO) and 5G(2*2MIMO)
	8 SSIDs(4+4)
	Supports Open System, Shared Key, WPA, WPA2, WPA-PSK, WPA2-PSK and WPS Authentication
	Supports automatic selection and manual configuration of channels
	Theoretical air interface rate 300 Mbit/s (2.4G), 867 Mbit/s(5G)

Type	Instruction	Type	Instruction
POTS Port	Supports H.248 and SIP	USB	Compliant with the USB 2.0 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
	PPPoE/DHCP simulation testing

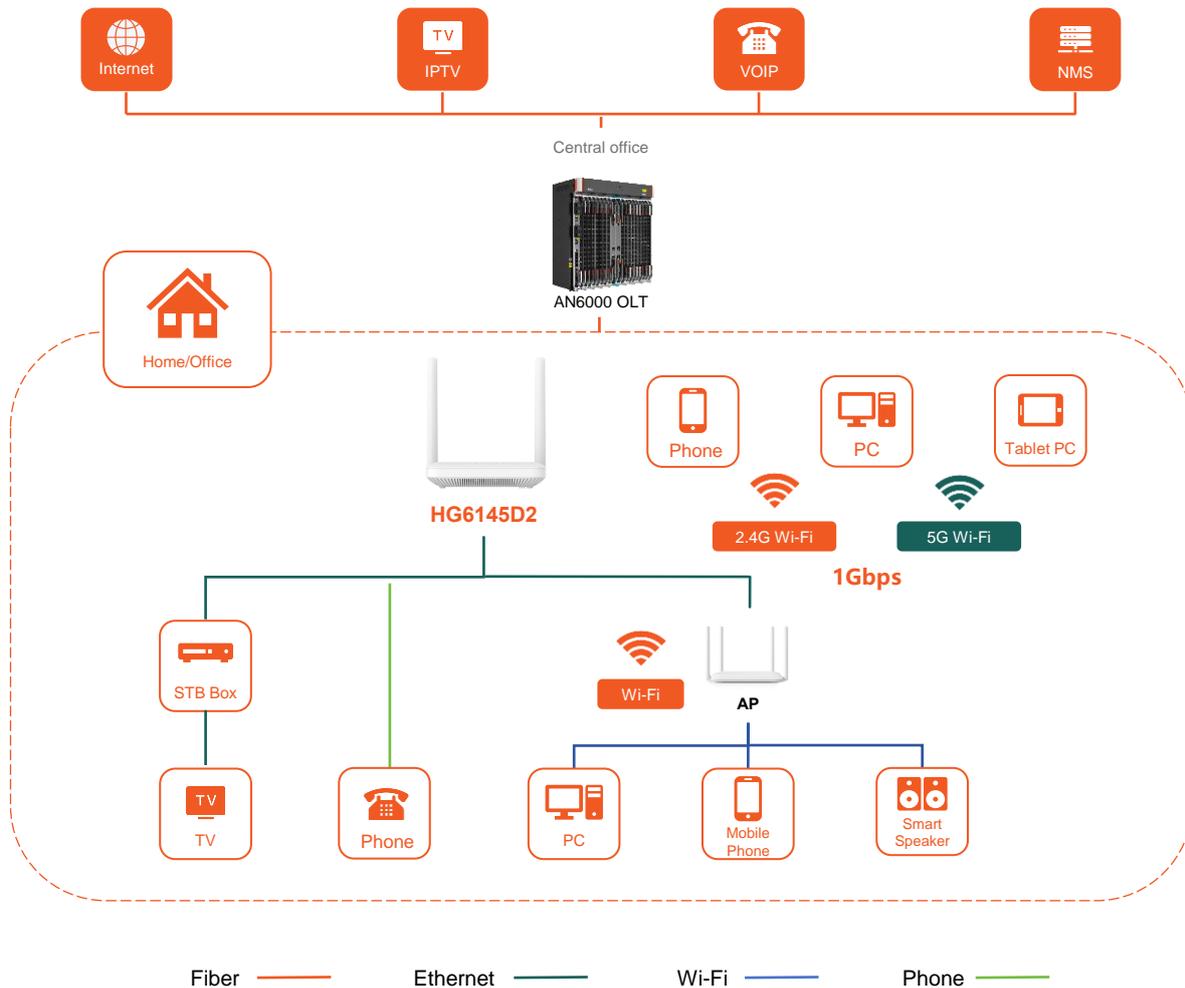
Type	Instruction
Smart Service	Service: HIS, IPTV , Voice
	Flexible connection modes: Wire(GE/POTS) + Wi-Fi
	Powerful QoS: <ul style="list-style-type: none"> <li>• 802.1p Priority</li> <li>• SP/WRR/SP+WRR</li> </ul>

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	SIP/H.248 auto-negotiation
	IPv4/IPv6 auto-negotiation
	Easy to connect to ACS by TR-069
	Easy to connect to other vendors' OLT

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 1024 multicast groups

# Networking Topology



Copyright © 2024 FiberHome Telecommunication Technologies Co.,LTD. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of FiberHome Telecommunication Technologies Co.,LTD.

## Trademarks and Permissions

**FiberHome**® is the trademark of FiberHome Telecommunication Technologies Co.,LTD. All other trademarks and trade names mentioned in this document are the property of their respective holders.

## Notice

The purchased products, services and features are stipulated by the contract made between FiberHome and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied. The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

## 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>