

HG6142HT

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



Overview

HG6142HT is a GPON BE3600 dual-band Wi-Fi 7 gateway for home. Downlink has 1 2.5GE port, 3 GE ports and VOIP port. It can meet the needs of over gigabit wired and wireless internet access , fixed phone, and other functions. HG6142HT also support smart and remote O&M, realizing simple deployment and management.



Physical Parameters

Type	Instruction
Dimensions	43mm × 132mm × 185mm
Weight	About 320g
Operating Temperature	0°C~40°C
Storage Temperature	-20°C~70°C
Operating Humidity	10%~95%(no condensation)
System Power Supply	DC 12V, 1.5A
Power Adapter input	AC 100~240V, 50~60Hz
Power Consumption	Typical : 14W; Max : 16W
Ports	GPON+1*2.5GE+3*GE+1*POTS+Wi-Fi BE3600+1*USB2.0
Indicators	Power/PON/LOS/Internet/Phone/LAN/USB/2.4G/5G/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(2*2MIMO) and 5G(2*2MIMO), 5G band 160MHz bandwidth
	8 SSIDs(4+4)
	Supports Open System, Shared Key,WPA, WPA2, WPA-PSK, WPA2- PSK, WPA3-SAE and WPS Authentication
	Supports automatic selection and manual configuration of channels
	Theoretical air interface rate 688 Mbit/s (2.4G), 2882 Mbit/s(5G)

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

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

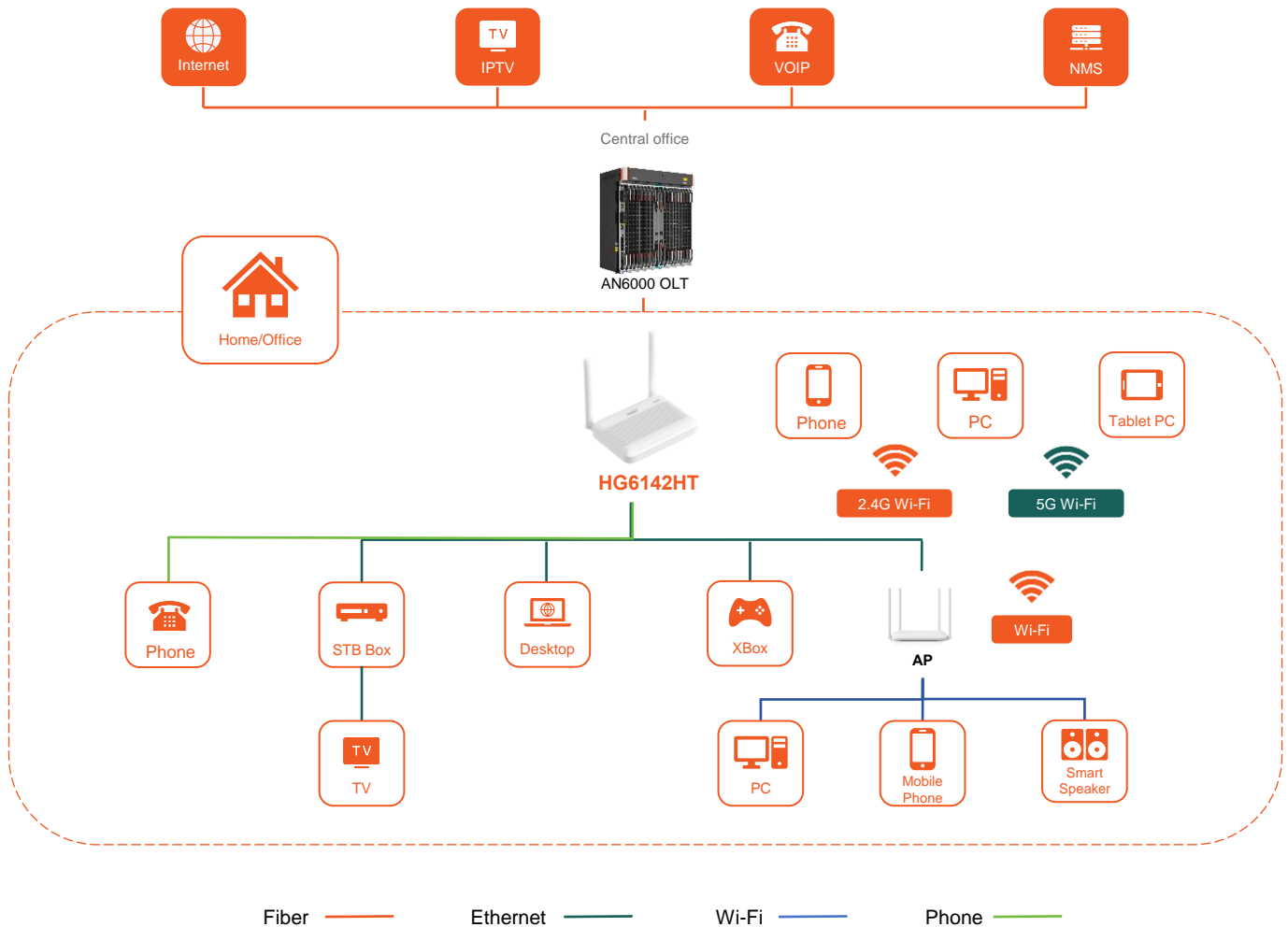
Type	Instruction
Smart Service	Triple play service: HIS, IPTV, Voice
	Flexible connection modes: Wire(GE/2.5GE/POTS) + Wi-Fi
	Powerful QoS: <ul style="list-style-type: none"> • 802.1p Priority • SP/WRR/SP+WRR

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