

HG6021FC2

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



Overview

HG6021FC2 is a GPON AX3000 dual-band Wi-Fi 6 gateway for home. Downlink has 2 GE ports. It can meet the needs of over gigabit wired and wireless internet access and other functions. HG6021FC2 also supports smart and remote O&M, realizing simple deployment and management.



Physical Parameters

Type	Instruction
Dimensions	146mm × 109mm × 40mm
Weight	About 268g
Operating Temperature	0°C~40°C
Storage Temperature	-20°C~70°C
Operating Humidity	5%~95%(no condensation)
System Power Supply	DC 12V, 1.5A
Power Adapter input	AC 100~240V, 50~60Hz
Power Consumption	Typical:6W; Max:12W
Ports	GPON+2*GE+Wi-Fi AX3000
Indicators	Power/PON/LOS/Internet/LAN1-2/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 (2.4G)
	IEEE 802.11 a/n/ac/ax (5G)
	Dual band: 2.4G(2*2MIMO) and 5G(2*2MIMO), 5G band 160MHz bandwidth
	16 SSIDs(8+8)
	Supports Open System, Shared Key
	WPA-PSK, WPA2-PSK, WPA3-SAE and WPS
	Authentication
	Supports automatic selection and manual configuration of channels
	Theoretical air interface rate: : 574 Mbit/s (2.4G), 2402 Mbit/s(5G)

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	

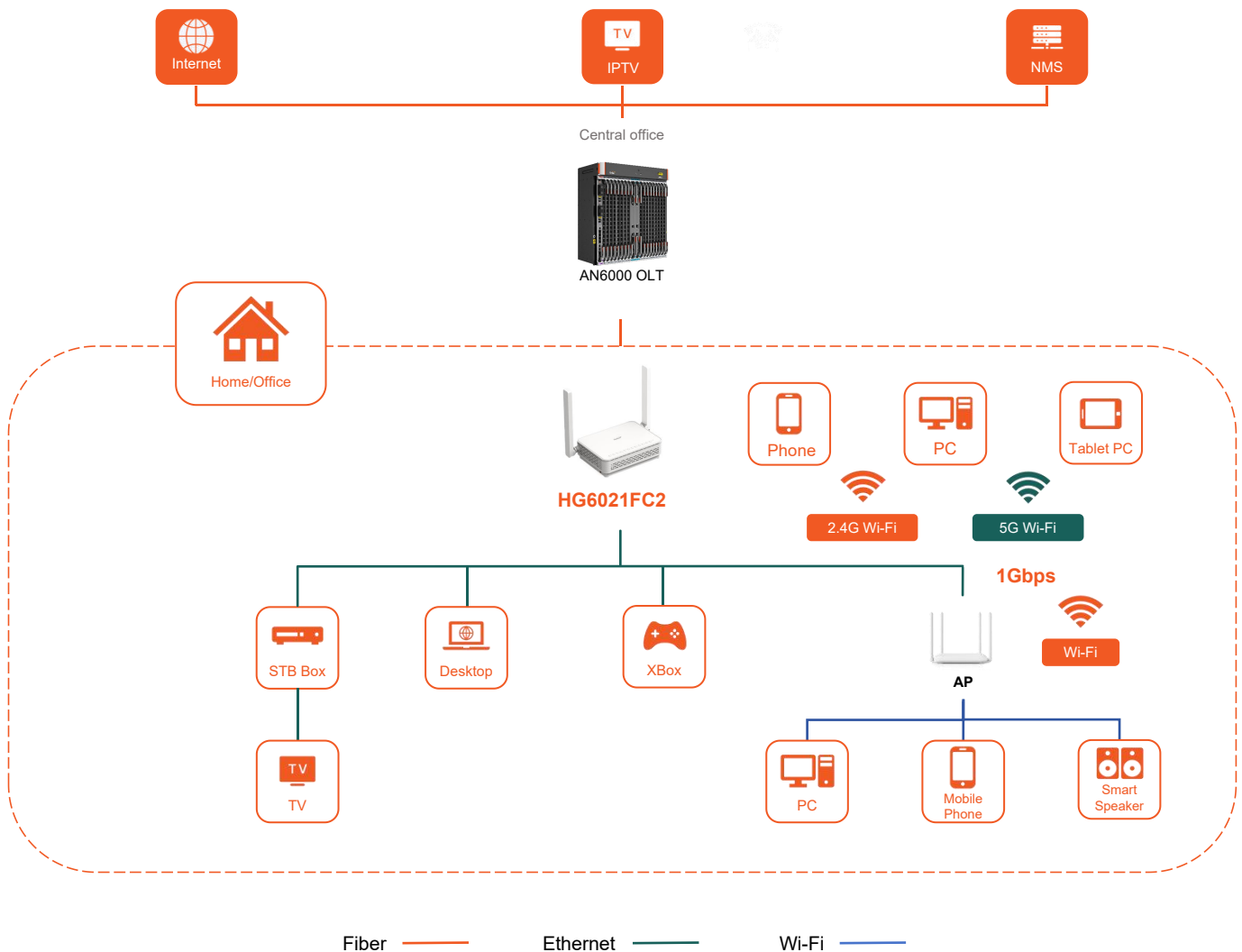
Type	Instruction	
Smart Service	Dual play service: HIS, IPTV	
	Flexible connection modes:Wire(GE) + Wi-Fi	
	Powerful QoS:	• 802.1p Priority • SP/WRR/SP+WRR

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 10M/100M/1000M auto-negotiation	
	IPv4/IPv6 auto-negotiation	
	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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