

HG8143F

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



Overview

HG8143F is a GPON AX3000 dual-band Wi-Fi 6 gateway for home. It supports cellular uplink with 4G sim card. Downlink has 4 GE ports and VOIP port. It can meet the needs of over gigabit wired and wireless internet access , fixed phone, and other functions. HG8143F also support smart and remote O&M, realizing simple deployment and management.



Physical Parameters

Type	Instruction
Dimensions (H*W*D)	36*220*146mm
Weight	About 603g
Operating Temperature	-5°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:10W; Max:15W
Ports	GPON/4G LTE CAT6 4*GE+1*POTS+Wi-Fi+1*USB DOWNLINK
Indicators	Power/PON/LOS/Internet/USB/LAN/Phone/WLAN/WPS/SIM/LTE Signal
Memory	256MB Flash, 512MB RAM

Interfaces Parameters

Type	Instruction
GPON Port	Class B+
	Receiver sensitivity: -28dBm
	Overload optical power: -8dbm
	Wavelengths: US 1310nm, DS 1490nm
	Supports ITU-T G.984 standard
	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	

Type	Instruction
4G LTE	LTE Category: Cat 6
	Support TDD-LTE/FDD-LTE
	LTE-FDD B1/B3/B5/B28
	LTE-TDD B40/B41
	4G DL 2*2 MIMO: B1/B3/B5/B28/B40/B41
	Peak Throughput: DL 300Mbps/UL 50Mbps

Type	Instruction	Type	Instruction
SIM Slot	4FF SIM card (Nano-SIM) format	USB	Compliant with the USB 2.0 standard
	Support carrier SIM lock		FTP-based network storage

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*2 MIMO) and 5G(2*2 MIMO) 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 574 Mbit/s (2.4G), 2402 Mbit/s(5G)

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	Supports Open System, Shared Key, WPA2-PSK, WPA-PSK/WPA2-PSK, WPA2-PSK/WPA3-SAE WPA3-SAE and WPS Authentication
	Supports automatic selection and manual configuration of channels
	Support easymesh
	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

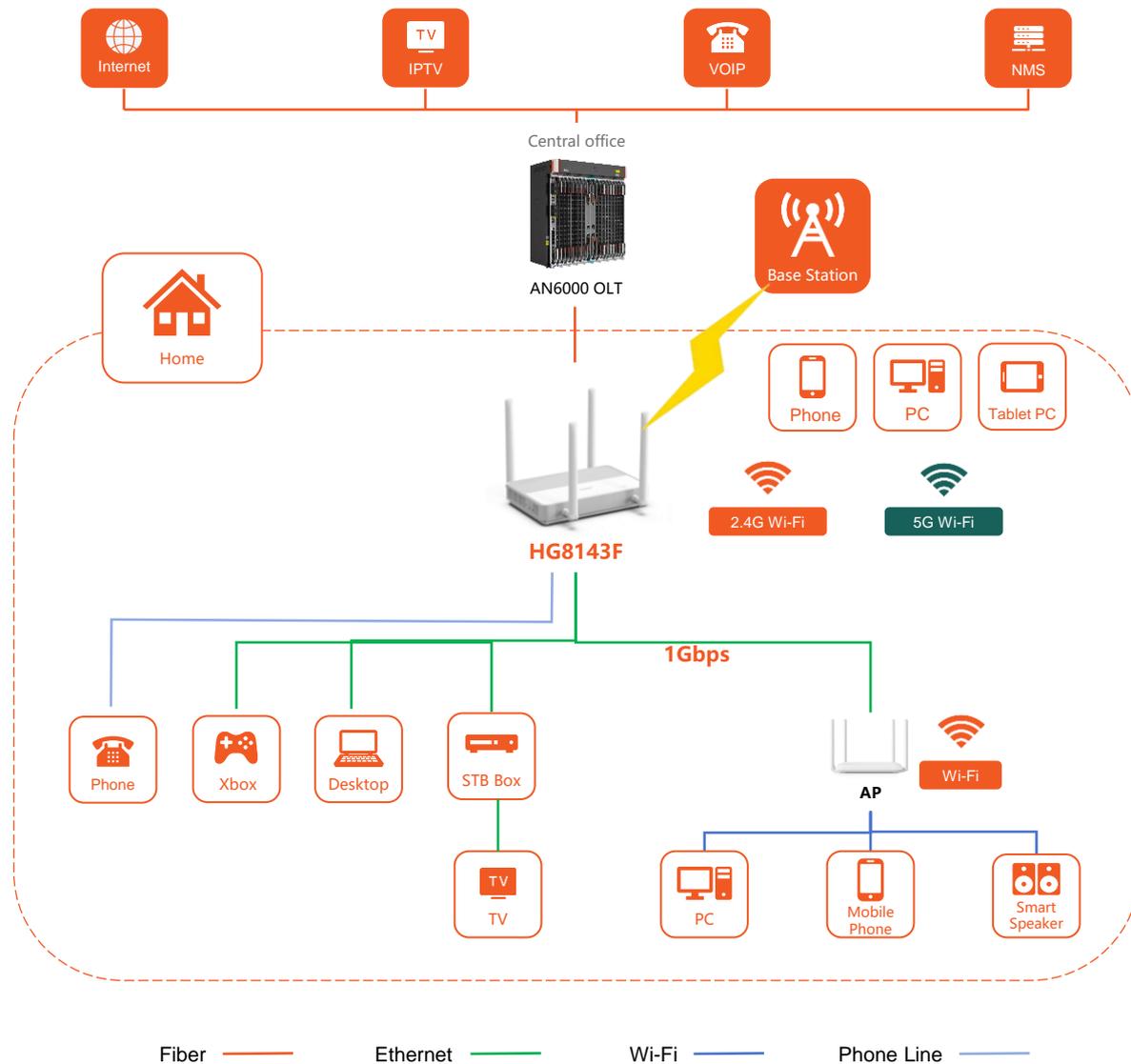
Type	Instruction
Smart Interconnection	IPv4/IPv6 auto-negotiation
	Easy to connect to other vendors' OLT
	Easy to connect to ACS by TR-069

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

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

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



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