![FiberHome]

HG5853SF

High Bandwidth | Smart O&M

Smart Interconnection | Smart Service

Overview

HG5853SF is a XGSPON AX3000 dual-band Wi-Fi 6 gateway for home. Downlink has 1 10GE port, 4 GE ports and VOIP port. It can meet the needs of over gigabit wired and wireless internet access, fixed phone, and other functions. HG5853SF also support smart and remote O&M, realizing simple deployment and management.

Physical Parameters

Type	Instruction
Dimensions	36*220*146mm
Weight	690g approximately
Operating Temperature	0℃~40℃
Operating Humidity	10%~90%(non-condensing)
Ports	1*10GE+4*GE+2*POTS+Wi-Fi AX3000+1*USB
System Power Supply	DC 12V, 2A
Power Adapter input	AC 100~240V, 50~60Hz
Static Power Consumption	8W
Maximum Power Consumption	20W
Memory	256M Flash, 512 RAM
Indicators	Power/PON/LOS/Internet/10GLAN/WLAN/WPS/LAN/Phone/USB

Interfaces Parameters

Type	Instruction
XGS-PON Port	XGSPON N2
	Reciever sensitivity: -28dBm
	Overload optical power: -8dbm
	Wavelengths: US 1270nm, DS 1577nm
	Supports ITU-T G.9807.1 standard
	Supports XGEM encapsulation & Ethernet over XGEM
	Flexible Mapping between XGEM ports 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
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

Interfaces Parameters

Type	Instruction
Wi-Fi Port	IEEE 802.11 b/g/n/ax (2.4G)
	IEEE 802.11 b/g/n/ax (5G)
	Dual band: 2.4G(2*2MIMO) and 5G(2*2MIMO)
	8 SSIDs(4+4)
	Antenna gain: 5 dBi
	Air interface rate: : 574 Mbit/s (2.4G), 2402 Mbit/s(5G)
	Beamforming,Bandsteering
	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
	OFDMA, MU-MIMO, and 1024QAM
	160MHz frequency bandwidth

Type	Instruction
POTS Port	Maximum REN: 2
	G.711A/μ, G.729a/b and G.722 encoding/decoding
	T.30/T.38/G.711 fax mode
	DTMF

Type	Instruction
USB Port	1*USB 3.0 + 1*USB 2.0
	FTP-based network storage
	External USB dongle expansion capability

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/POTS) + Wi-Fi	
	Powerful QoS:	• 802.1p Priority • SP/WRR/SP+WRR

Type	Instruction
Smart Interconnection	GE Port 100M/1000M auto-negotiation
	10GE Port 1000M/10000M auto-negotiation
	IPv4/IPv6 auto-negotiation
	Easy to connect to other venders'OLT
	Easy to connect to ACS by TR-069

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
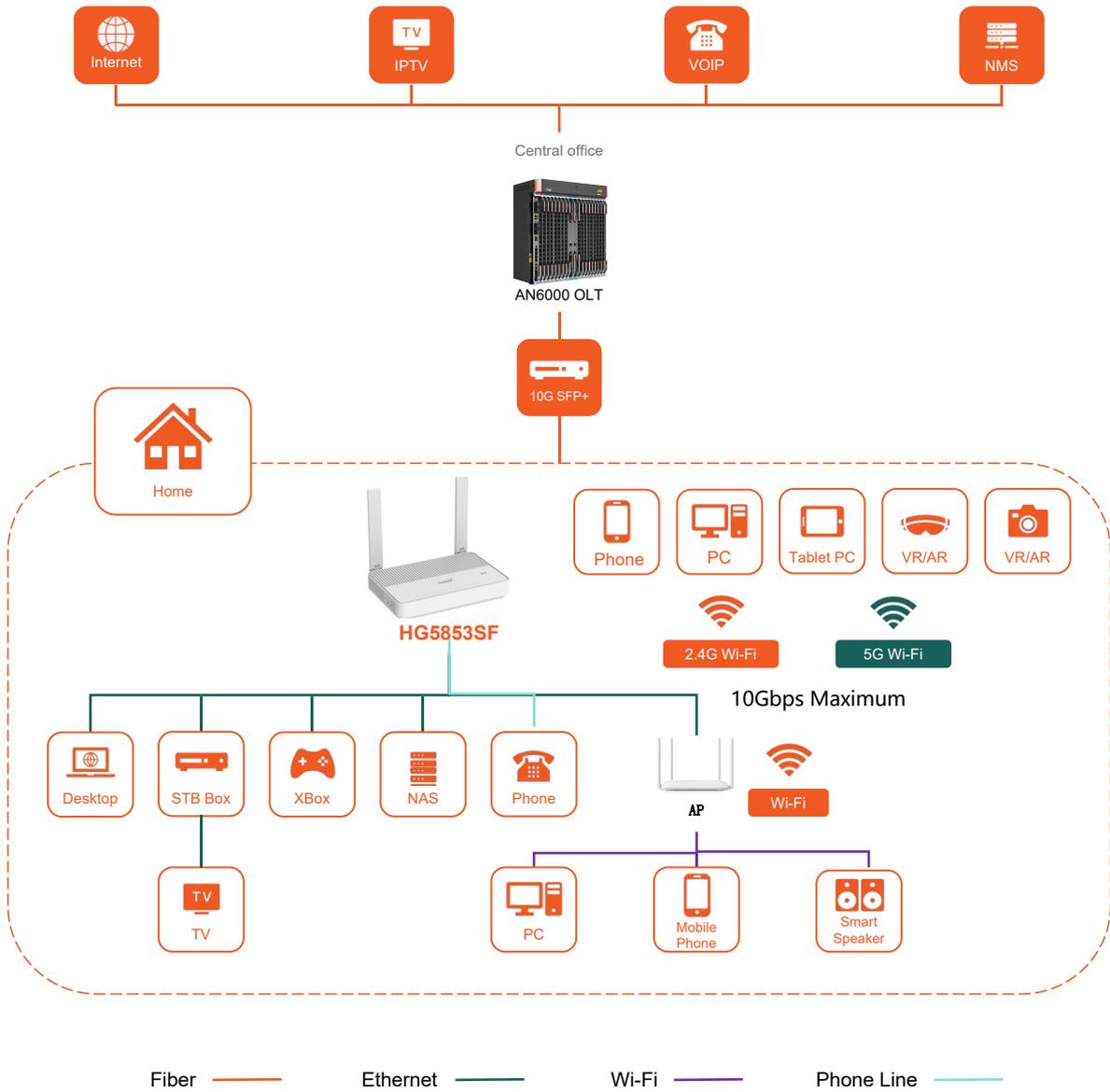
Fiber ——— Ethernet ——— Wi-Fi ——— Phone Line ———

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