

HG5019SA

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



Overview

HG5019SA is a XGSPON gateway for home. Downlink has 1 10GE port and 1 CATV port. It can meet the needs of 10 gigabit wired internet access. HG5019SA also support smart and remote O&M, realizing simple deployment and management.



Physical Parameters

Type	Instruction
Dimensions (H*W*L)	136*92.5*33.5mm
Weight	About 195g
Operating Temperature	-5°C~45°C
Operating Humidity	10%~95%(no condensation)
Ports	1*10GE+1*CATV
System Power Supply	DC 12V, 1A
Power Adapter input	AC 100~240V, 50~60Hz
Static Power Consumption	8W
Maximum Power Consumption	10W
Indicators	Power/PON/LOS/Internet/LAN/CATV
Memory	256MB Flash, 512MB RAM

Interfaces Parameters

Type	Instruction
XGS-PON Port	XGSPON N2
	Receiver 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	Global configuration of enabling / disabling the MAC address learning function
	Layer 2 / Layer 3 wire-speed forwarding

Product Function

Type	Instruction	
Smart O&M	OMCI/Web UI/TR-069	
	PPPoE/DHCP simulation testing	
	Supports automatic service provisioning, management and software upgrade remotely based on OMCI/TR-069	
	Supports delivering the XML configuration file via the TR-069, alarm synchronization and performance statistics	

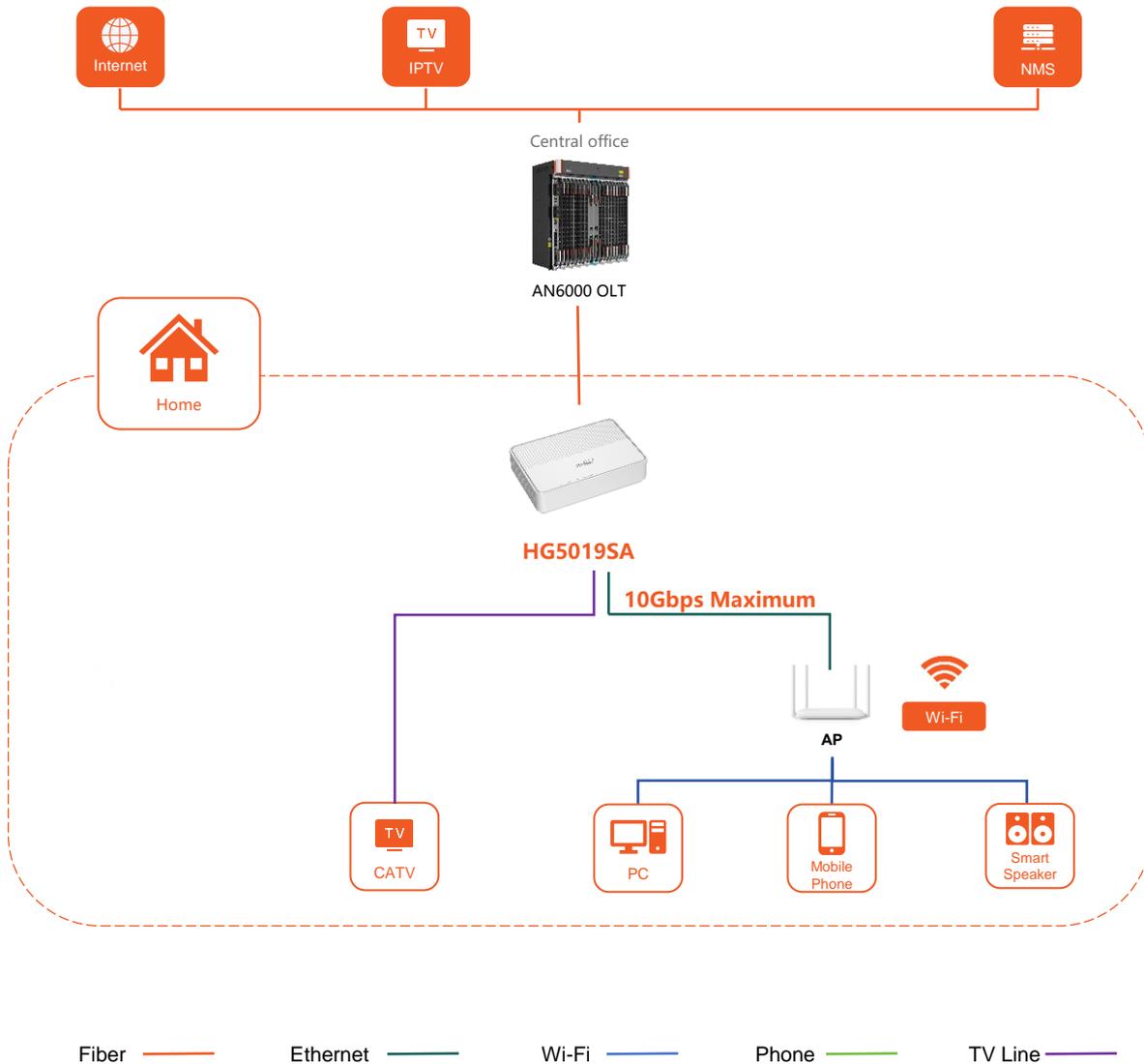
Type	Instruction	
Smart Service	Powerful QoS:	<ul style="list-style-type: none"> • 802.1p Priority • SP/WRR/SP+WRR

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	
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 256 multicast groups

Networking Topology



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