AK-G460 GPON HGU

Introduction

AK-G460 is a GPON Home Gateway Unit with brand new appearance, it's a fast, convenient, flexible, secure and highly integrated broadband connection device. G460 support routing and bridging function, it's very suitable for home and small business users.

G460 support optical fiber access with 2.5Gb/s downstream and 1.25Gb/s upstream two-way data transmission, conform with point-to-multipoint data service of ITU-T G.984.2 and ITU-T G.984.5, client support IEEE802.11b/g/n 300Mbps wireless connection, 2CH VOIP voice, 1 HOST USB2.0 interface, and 4 self-adaptive 10/100 Base-T LAN interface which conform with IEEE802.3 and 802.3u.

Appearance

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Parameters

Product Specification		

Upstream Interface	• PON Interface
	   ■ 1 optical fiber access port
	   ■ Conform with ITU-T G.984.2, ITU-T G.984.4 and ITU-T G.988
	   ■ Downstream: 2.5Gbps(wavelength: 1490nm)
	     Upstream: 1.25Gbps(wavelength: 1310nm)
	   ■ Average luminescence power: 0.5-5dBm(zero luminescence power:-45dBm)
	     Receiving Sensitivity: up to -28dBm	

Downstream Interface	• LAN Interface
	   ■ 4 10/100/1000Base-T RJ-45 Ethernet interface
	   ■ Support straight crossed cable, support auto-negotiation
	• Wireless
	   ■ IEEE 802.11n、IEEE 802.11g、IEEE 802.11b
	   ■ Two built-in antenna
	   ■ The highest connecting rate: 300Mbps
	   ■ Coverage: indoor 100m max, outdoor 300m max.
	   ■ Transmitting Power
	     11B _POWER = 15.5dBm
	     11G_POWER = 15.5dBm
	     11N_HT20_POWER= 15.5dBm
	     11N_HT40_POWER = 14.5dBm
	   ■ EVM
	     11B_ EVM =-10dB
	     11G_ EVM =-30 dB
	     11N_HT20_EVM =-29 dB
	     11N_HT40_EVM =-29 dB	

USB Interface	• 1 USB 2.0 HOST interface which can provide 5V voltage with max current 1A • Support external storage device	
Voice Interface	• Support SIP protocol/H.248 protocol • Support multi voice encoding format: PCMU, PCMA, G.722, G.723, G.726-32, G.729 • Support voice value-added services: call forwarding, call waiting, call identification, abbreviated dialing, hot line service, do not disturb service, alarm clock, call barring, three-way calling	

Power Supply	• Power Consumption: 8.5W
	• External Power Adapter
	   ■ Input: 100-240V~50/60Hz 0.6A
	   ■ Output: DC12V/1.5A
	   ■ Lightning protection grade: 4KV	

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Product Appearance	
Buttons	1 Power button, turn on/off the power 1 Rest button, restore factory settings 1 WLAN button, turn on/off wireless 1 Indicator Switch button, turn on/off the indicator
LED	- PON (optical fiber G) status indicator - Los (optical signal) status indicator - Internet (broadband) status indicator - WLAN (wireless) status indicator - VOIP (phone) status indicator - Power (power supply) status indicator - LAN1 (Ethernet port 1) status indicator - LAN2 (iTV) status indicator - LAN3 (Ethernet port 3) status indicator - LAN4 (Ethernet port 4) status indicator - USB(USB） status indicator
WiFi	Two built-in antennas
Dimension	Length: 18.5cm Width: 13.5cm Height: 4.5cm
Others	
Operating Environment	- Working Temperature: 0℃~45℃ - Storage Temperature: -40℃~5℃ - Working Humidity: 10% ~90% RH (no condensation) - Storage Humidity: 5% ~90% RH (no condensation)

Functions

Connection	
Upstream Connection	- Support PON upstream connection - PON optical connection - Conform with ITU-T G.984.2, ITU-T G.984.4 and ITU-T G.988
IP	
Connection Mode	- Support upstream connection - PPPoE - DHCP：DHCP Server；DHCP Client - Static Connection - Bridge - Support 4096 VLAN unvarnished transmission - Support 4096 VLAN ID definition
DNS	DNS Relay, Support DDNS

Sidebar: AK-G460 GPON HGU

Address Translation	- NAT - NAPT
Routing Protocol	- Static Routing - Dynamic Routing RIP v1/v2
Port Relay	- Virtual Server - DMZ - UPnP
VPN	- VPN Pass-through - Support PPTP VPN - Support IPSEC VPN - Support L2TP VPN
ALG	- FTP ALG - SIP ALG - TFTP ALG - H323 ALG - PPTP ALG - IPSec ALG - RTSP ALG
FTP	- FTP Server - FTP Client
IGMP	- IGMP Snooping - IGMP Proxy
Storage Sharing	Samba
IPv6	- SLAAC - DHCPv6 - PPPoEv6 - DNSv6
Others	- Support ICMP - Support IPPD
Bandwidth Control	
QoS	- Support CAR Rate-limiting - Support absolute priority dispatch - Support WRR - Support DSCP Identification - Support 802.1P Identification
Wireless Parameters	
Basic Functions	- Support Wireless Switch - Support WPS Switch - Support Multi SSID Setup

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	• Support Channel Selection
	• Frequency Bandwidth: Auto, 20M, 40M
Wireless Security	• Wireless MAC Address Filter
	• Support 64/128/152 bit WEP Encryption
	• WPA-PSK/WPA2-PSK、WPA/WPA2 Security Mechanism

Operating Management

Local Management	• Support local HTTP management
	• Support HTTP/Telnet/FTP/TFTP software update
	• Support system log
	• Support configuration import/export
	• Support time setting
	• Support Internet time synchronization
	• Conform with TR-098 and TR-104 standard, support various service configuration, including Ethernet, VoIP, WLAN etc.
Remote Management	• Conform with TR-069 standard
	• Support HTTP remote access management
	• Support Telnet/FTP/TFTP remote access
	• SNMP V1/V2/V3

Security

Security	• Support multilevel user authority
	• Modify user name, password supported
	• Set WAN access control supported
	• Access control based on IP supported
	• Access control based on MAC supported
	• Parental control supported
	• DOS attack refusal
	• TCP/IP/Port/Connection filter rule
	• MAC layer filter
	• URL/Domain Name filter

Order

Model	Description
AK-G460	GPON,4*10/100/1000 Base-T, 2*POTS, 1*WLAN(802.11n), 1*USB, plastic housing

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