



# AK-G465 GPON HGU

## Introduction

AK-G465 is a GPON Home Gateway Unit of ANYK Technology with brand new appearance, it's a fast, convenient, flexible, secure and highly integrated broadband connection device. G465 support routing and bridging function, it's very suitable for home and small business users.

G465 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 series, 2 WiFi interface which conform with IEEE802.11b/g/n protocol and IEEE802.11AC protocol, 2 VOIP, 2 HOST USB2.0 interface, and 4 self-adaptive 10/100/1000 Base-T LAN interface which conform with IEEE802.3 and 802.3u.

## Appearance



## Parameters

Product Specification	
Upstream Interface	<ul style="list-style-type: none"> <li>● PON Interface                             <ul style="list-style-type: none"> <li>■ 1 optical fiber access port</li> <li>■ Conform with ITU-T G.984 series</li> <li>■ Downstream: 2.5Gbps(wavelength: 1490nm)</li> <li>■ Upstream: 1.25Gbps(wavelength: 1310nm)</li> <li>■ luminescence power: 0.5-5dBm, receiving sensitivity: <math>\geq -28</math>dBm, long huminescence power <math>\leq -45</math>dBm</li> <li>■ Support 32 T-CONTs</li> <li>■ Support 128 two way GEM interface</li> </ul> </li> </ul>



Downstream Interface	<ul style="list-style-type: none"> <li>● LAN Interface                             <ul style="list-style-type: none"> <li>● 4 10/100/1000Base-T RJ-45 Ethernet interface</li> <li>● Support straight crossed cable, support auto-negotiation</li> </ul> </li> <li>● Wireless                             <ul style="list-style-type: none"> <li>● 2.4G /5G support 802.11b/n, IEEE 802.ac</li> <li>● 2.4G-----For 20MHz channel bandwidth, 65M bandwidth, throughput capacity&gt;120Mbps/s,max physical connection speed is 150Mbps/s, for 40MHz channel bandwidth, 150M bandwidth, throughput capacity&gt; 220Mbps/s,max physical connection speed is 300Mbps/s</li> <li>● 5G----- For 40MHz channel bandwidth, 150M bandwidth, throughput capacity&gt;220Mbps/s,max physical connection speed is 867Mbps/s, For 80MHz channel bandwidth, 300M bandwidth, throughput capacity&gt; 300Mbps/s,max physical connection speed is 1300Mbps/s</li> <li>● The highest transmission rate: 1300Mbps/s</li> <li>● Coverage: indoor 100m max, outdoor 300m max.</li> <li>● Support WEP, WPA2, WPA2-PSK etc. AES encryption mode;</li> <li>● Support WPS;</li> <li>● Support 3x3 MIMO ;</li> <li>● Transmitting Power                                     <ul style="list-style-type: none"> <li>11B_POWER = 15.5dBm</li> <li>11G_POWER = 15.5dBm</li> <li>11N_HT20_POWER= 15.5dBm</li> <li>11N_HT40_POWER = 14.5dBm</li> </ul> </li> <li>● EVM                                     <ul style="list-style-type: none"> <li>11B_EVM =-10dB</li> <li>11G_EVM =-30 dB</li> <li>11N_HT20_EVM =-29 dB</li> <li>11N_HT40_EVM =-29 dB</li> </ul> </li> </ul> </li> </ul>
USB Interface	<ul style="list-style-type: none"> <li>● 2 USB 2.0 HOST interface which can provide 5V-1A output</li> <li>● Support external storage device</li> </ul>
Voice Interface	<ul style="list-style-type: none"> <li>● Support SIP protocol</li> <li>● Support multi voice encoding format: PCMU, PCMA, G.722, G.723, G.726-32, G.729</li> <li>● 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</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>● Power Consumption: 18W</li> <li>● External Power Adapter                             <ul style="list-style-type: none"> <li>● Input: 100-240V~50/60Hz 0.7A</li> <li>● Output: DC12V/2A</li> <li>● Lightning protection grade: 4KV</li> </ul> </li> </ul>
<b>Product Appearance</b>	
Buttons	<ul style="list-style-type: none"> <li>● 1 Power button, turn on/off the power</li> <li>● 1 Rest button, restore factory settings</li> <li>● 1 WiFi button, turn on/off wireless</li> <li>● 1 WPS button, turn on/off wireless protected setup</li> </ul>
LED	<ul style="list-style-type: none"> <li>● Power (power supply) status indicator</li> <li>● PON (ONU registration) status indicator</li> <li>● LOS (optical signal) status indicator</li> <li>● Internet (broadband) status indicator</li> <li>● LAN1 (Ethernet port 1) status indicator</li> <li>● LAN2 (Ethernet port 1) status indicator</li> <li>● LAN3 (Ethernet port 3) status indicator</li> <li>● LAN4 (Ethernet port 4) status indicator</li> <li>● WiFi1 (5G) status indicator</li> <li>● WiFi2 (2.4G) status indicator</li> <li>● WPS wireless protection setup</li> <li>● FXS1 (phone 1) status indicator</li> <li>● FXS2 (phone 2) status indicator</li> <li>● USB1(USB) status indicator</li> <li>● USB2(USB) status indicator</li> </ul>



WiFi	<ul style="list-style-type: none"> <li>● Double frequency(2.4G, 5G) antennas</li> </ul>
<b>Others</b>	
Operating Environment	<ul style="list-style-type: none"> <li>● Working Temperature: 0°C~45°C</li> <li>● Storage Temperature: -40°C~85°C</li> <li>● Working Humidity: 10% ~90% RH (no condensation)</li> <li>● Storage Humidity: 5% ~90% RH (no condensation)</li> </ul>

## Functions

<b>Connection</b>	
Upstream Connection	<ul style="list-style-type: none"> <li>● Support PON upstream connection               <ul style="list-style-type: none"> <li>● PON optical connection</li> <li>● Conform with ITU-T G.984 series</li> </ul> </li> </ul>
<b>IP</b>	
Connection Mode	<ul style="list-style-type: none"> <li>● Support upstream connection               <ul style="list-style-type: none"> <li>● PPPoE</li> <li>● DHCP: DHCP Server; DHCP Client</li> <li>● Static Connection</li> <li>● Bridge</li> </ul> </li> <li>● Support 4096 VLAN unvarnished transmission               <ul style="list-style-type: none"> <li>● Support 4096 VLAN ID definition</li> </ul> </li> </ul>
DNS	<ul style="list-style-type: none"> <li>● DNS Relay, Support DDNS</li> </ul>
Address Translation	<ul style="list-style-type: none"> <li>● NAT</li> <li>● NAPT</li> </ul>
Routing Protocol	<ul style="list-style-type: none"> <li>● Static Routing</li> <li>● Dynamic Routing RIP v1/v2</li> </ul>
Port Relay	<ul style="list-style-type: none"> <li>● Virtual Server</li> <li>● DMZ</li> <li>● UPnP</li> </ul>
VPN	<ul style="list-style-type: none"> <li>● VPN Pass-through</li> <li>● Support PPTP VPN</li> <li>● Support IPSEC VPN</li> <li>● Support L2TP VPN</li> </ul>
ALG	<ul style="list-style-type: none"> <li>● FTP ALG</li> <li>● SIP ALG</li> <li>● TFTP ALG</li> <li>● H323 ALG</li> <li>● PPTP ALG</li> <li>● IPsec ALG</li> <li>● RTSP ALG</li> </ul>
FTP	<ul style="list-style-type: none"> <li>● FTP Server</li> <li>● FTP Client</li> </ul>
IGMP	<ul style="list-style-type: none"> <li>● IGMP Snooping</li> <li>● IGMP Proxy</li> </ul>
IPv6	<ul style="list-style-type: none"> <li>● SLAAC</li> <li>● DHCPv6</li> <li>● PPPoEv6</li> <li>● DNSv6</li> </ul>
Others	<ul style="list-style-type: none"> <li>● Support ICMP</li> <li>● Support IPPD</li> </ul>



Bandwidth Control	
QoS	<ul style="list-style-type: none"> <li>● Support CAR Rate-limiting</li> <li>● Support absolute priority dispatch</li> <li>● Support WRR</li> <li>● Support DSCP Identification</li> <li>● Support 802.1P Identification</li> </ul>
Wireless Parameters	
Basic Functions	<ul style="list-style-type: none"> <li>● Support Wireless Switch</li> <li>● Support WPS Switch</li> <li>● Support SSID Setup</li> <li>● Support Channel Selection</li> <li>● Frequency Bandwidth: Auto, 20M, 40M, 80M</li> </ul>
Wireless Security	<ul style="list-style-type: none"> <li>● Wireless MAC Address Filter</li> <li>● Support 64/128 bit WEP Encryption</li> <li>● WPA-PSK/WPA2-PSK、WPA/WPA2 Security Mechanism</li> </ul>
Operating Management	
Local Management	<ul style="list-style-type: none"> <li>● Support local HTTP management</li> <li>● Support HTTP/Telnet/FTP/TFTP software update</li> <li>● Support system log</li> <li>● Support configuration import/export</li> <li>● Support time setting</li> <li>● Support Internet time synchronization</li> <li>● Conform with TR-098 and TR-104 standard, support various service configuration, including Ethernet, VoIP, WLAN etc.</li> </ul>
Remote Management	<ul style="list-style-type: none"> <li>● Conform with TR-069 standard</li> <li>● Support HTTP remote access management</li> <li>● Support Telnet/FTP/TFTP remote access</li> <li>● SNMP V1/V2/V3</li> </ul>
Security	
Security	<ul style="list-style-type: none"> <li>● Support multilevel user authority</li> <li>● Modify user name, password supported</li> <li>● Set WAN access control supported</li> <li>● Access control based on IP supported</li> <li>● Access control based on MAC supported</li> <li>● Parental control supported</li> <li>● DOS attack refusal</li> <li>● TCP/IP/Port/Connection filter rule</li> <li>● MAC layer filter</li> <li>● URL/Domain Name filter</li> </ul>

### Dimension and Weight

AK-G465	Device	Packing	Carton
<b>Dimension</b> L*W*H/mm	233*184*39	263*245*55	505*288*280
<b>Weight/kg</b>	0.43	0.76	6.3

### Order Information

Model	Description
AK-G465	GPON HGU, 4*GE RJ45 port, 2* VOIP, 2*WIFI(3*3 MiMO), 2*USB; DC 12V 2A