



## AK-G500 GPON HGU

### Introduction

AK-G500 is a fast, convenient, flexible, secure and highly integrated GPON broadband connection device. It provide 4 GE interface, 1 PON interface and 1 WiFi interface, it's very suitable for home and small business users and can meet the requirements of FTTH high speed data transfer.

### Appearance



### Features

- ☑ Integrated GPON port, conform with ITU-T G.984 standard;
- ☑ Adopt PTMP (point to multipoint) network topology, collect and distribute scattered Ethernet services effectively, provide 10/100/1000M RJ45 network interface, update existing networks smoothly;
- ☑ The Dynamic Bandwidth Allocation (DBA) mechanism enables all users to share the bandwidth reasonably, guarantee the QoS;
- ☑ Support IGMP multicast, make use of the bandwidth effectively;
- ☑ Support multicast VLAN;
- ☑ Support OMCI management protocol, including configuration, alarm, performance monitor, fault isolation and security management etc, support remote management through OLT;
- ☑ Support FEC and DBA;
- ☑ Support IEEE802.1Q VLAN protocol;
- ☑ Support IEEE802.1p protocol;
- ☑ Support remote loopback and network status diagnosis;
- ☑ Support cyber storm control.



## Parameters

Model	AK-G500
User interface	4*10/100/1000M RJ45, 1*WiFi
PON	Transmission speed :upstream 1.25Gbps /downstream 2.5Gbps Network coverage radius: 20km Optical receive sensitivity: $\geq -28\text{dBm}$ Luminous power: $>0\text{dBm}$ Security: ONU authentication mechanism
WiFi	IEEE 802.11b/g/n WIFI
Protocol	Compliant with IEEE 802.3ah YD/T 1475-2006 IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1b/g/n IEEE 802.1w, RSTP IEEE 802.3ad (LACP) Ethernet-II, Ethernet-SNAP
VLAN	Port-based VLAN GVRP IEEE 802.1Q VLAN
QoS	Backpressure flow control(half-duplex) IEEE 802.3x flow control(full-duplex) Prevent head of line WR, SP queue scheduling algorithm Port rate limit
Security	IEEE 802.1x, access control based on port; support local and remote RADIUS CHAP,EAP certification Storm control, port protection
Management	Support various management modes such as Web, TELNET Support debug function
Environment	Operating temperature: $0^{\circ}\text{C}\sim 60^{\circ}\text{C}$ ; Operating humidity: 10%~85% (no-condensation)
	Storage temperature: $-40^{\circ}\text{C}\sim 80^{\circ}\text{C}$ ; Storage humidity: 5%~95% (no-condensation)
Power supply	Input AC 110~240V Output DC 12V/1A
Power Consumption	12W

## Dimension and Weight

AK-G500	Packing (with ONU)	Carton
Dimension L*W*H/mm	296*179*74	400*310*390
Weight/kg	0.7	7.4

## Order Information

Model	Description
AK-G500	GPON HGU, 4*GE RJ45, 1*WIFI, DC 12V 1A, white&black