



## AK-G503/G503W GPON HGU

### Introduction

AK-G503/G503W is a fast, convenient, flexible, secure and highly integrated GPON broadband connection device. It provide 4 FE interface, 1 WiFi, 1 CATV and 1 PON 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 10/100M 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-G503/G503W
User interface	4*FE RJ45, 1*WiFi, 1*CATV
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
CATV	RF frequency range: 47MHz — 1000MHz RF output impedance :75 $\Omega$
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 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$ ; Operating humidity: 10%~85% (no-condensation)
	Storage temperature: -40 $^{\circ}\text{C}$ ~80 $^{\circ}\text{C}$ ; Storage humidity: 5%~95% (no-condensation)
Power supply	Input AC 110~240V Output DC 12V/1.5A
Power Consumption	18W

## Dimension and Weight

AK-G503&G503W	ONU	Carton (with ONU)	Outer Box
Dimension (L*W*H/mm)	174*133*35	296*179*74	400*310*390
Weight(kg)	0.32	0.63	7

## Order Information

Model	Description
AK-G503	GPON HGU, 4*FE RJ45, 1*WIFI, 1* CATV (double-fiber tri-direction), DC 12V/1.5A, white&black (specify metric or imperial)
AK-G503W	GPON HGU, 4*FE RJ45, 1*WIFI, 1* CATV (single-fiber tri-direction), DC 12V/1.5A, white&black (specify metric or imperial)