# AK-G450 GPON HGU

## Introduction

AK-G450 is a fast, convenient, flexible, secure and highly integrated GPON broadband connection device. It provide 4 LAN interfaces, 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 10/100/1000M 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.

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# Parameters

| Model | AK-G450 |
|---|---|
| User interface | 1*10/100/1000M RJ45 |
| PON | Transmission speed :upstream 1.25Gbps /downstream 2.5Gbps<br>Network coverage radius: 20km<br>Optical receive sensitivity: ≥-28dBm<br>Luminous power: ＜0dBm<br>Security: ONU authentication mechanism |
| Protocol | Compliant with IEEE 802.3ah<br>YD/T 1475-2006<br>IEEE 802.1D, Spanning Tree<br>IEEE 802.1Q, VLAN<br>IEEE 802.1b/g/n<br>IEEE 802.1w, RSTP<br>IEEE 802.3ad (LACP)<br>Ethernet–II, Ethernet-SNAP |
| VLAN | Port-based VLAN<br>GVRP<br>IEEE 802.1Q VLAN |
| QoS | Backpressure flow control(half-duplex)<br>IEEE 802.3x flow control(full-duplex)<br>Prevent head of line<br>WR, SP queue scheduling algorithm<br>Port rate limit |
| Security | IEEE 802.1x, access control based on port; support local and remote RADIUS<br>CHAP,EAP certification<br>Storm control, port protection |
| Management | Support various management modes such as Web, TELNET<br>Support debug function |
| Environment | Operating temperature: 0℃～60℃;<br>Operating humidity: 10%～85% (no-condensation)<br>Storage temperature: -40℃～80℃;<br>Storage humidity: 5%～95% (no-condensation) |
| Power supply | Input AC 110～240V<br>Output DC 12V/0.5A |
| Power Consumption | 6W |

## Dimension and Weight

| Model | ONU Dimension L*W*H(mm) | Packing Dimension L*W*H(mm) | ONU Weight(kg) | |
|---|---|---|---|---|
| | | | Net Weight | Gross Weight |
| AK-G450 | 174*133*31 | 297*180*75 | 0.24 | 0.54 |

## Order Information

| Model | Description |
|---|---|
| AK-G450 | GPON,4*10/100/1000 Base-T, plastic housing |

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