



## AK-G105 GPON SFU

### General Description

AK-G105 is a new GPON ONU production of ANYK Technology's passive optical network terminal series. It provides GE interface, one optical interface, it's very suitable for home and small business users, can satisfy the FTTH high-speed data transmission.

### Outline



### Key Features

- ☑ Integrated GPON interface, to meet the ITU-T G.984 specification;
- ☑ It takes the PTMP (point to multipoint) network topology, effectively collects and converges scattered Ethernet services, and provides the 10/100/1000M Ethernet standard RJ45 interface, smoothly interconnects with existing networks;
- ☑ The Dynamic Bandwidth Allocation (DBA) mechanism enables all users to share the maximum 2.5Gbps bandwidth reasonably, guaranteeing a reliable QoS;
- ☑ Supports IGMP multicast, effective use of broadband;
- ☑ Supports multicast VLAN;
- ☑ Supports China Telecom CTC protocol;
- ☑ Full management through an Operation Administration Maintenance (OAM) protocol based on IEEE802.3ah, including configuration, alarm, performance monitoring, fault isolation and security management, etc. It supports remote management through OLT and local console management as well;
- ☑ Supports FEC and DBA;
- ☑ Supports IEEE802.1Q VLAN protocol;
- ☑ Supports IEEE 802.1p protocol;
- ☑ Supports remote loopback and network status diagnosis;
- ☑ Supports flow statistics;
- ☑ Supports storm control.

### Technical Parameters

<b>Model</b>	AK-G105
<b>User interface</b>	1 10/100/1000M RJ45 port.



<b>PON</b>	Transmission speed :upstream1.25Gbps/downstream2.5Gbps Network coverage radius: 20KM Optical receive sensitivity: $\geq -28\text{dBm}$ Luminous power: $< 0\text{dBm}$ Security: ONU authentication mechanism
<b>Protocol</b>	Compliant with IEEE 802.3ah YD/T 1475-2006 IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP IEEE 802.3ad (LACP) Ethernet-II, Ethernet-SNAP
<b>VLAN</b>	Port-based VLAN GVRP IEEE 802.1Q VLAN
<b>QOS</b>	Backpressure flow control(half-duplex) IEEE 802.3x flow control(full-duplex) Prevent Head Of Line IEEE 802.1p, CoS WR,SP and FIFO queue scheduling algorithm Port rate limit
<b>Safety</b>	IEEE 802.1x, access control based upon Port; support local and remote RADIUS. CHAP,EAP certification; Storm control, port protection,
<b>Management</b>	Various management modes such as Web, TELNET Debug function.
<b>Environment</b>	Operating temperature: $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ; Operating humidity: $10\% \sim 85\%$ non-condensing
	Storage temperature: $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$ ; Storage humidity: $5\% \sim 95\%$ non-condensing
<b>Power supply</b>	110~240VAC 12V/0.5A DC
<b>Power Consumption</b>	6W

## Volume and Weight

ONU Dimension				
Type	Length	Width	Height	Volume
AK-G105	130mm	100mm	28mm	$\text{mm}^3$
ONU Packing Dimension				
Type	Length	Width	Height	Volume
AK-G105	239mm	125mm	54mm	$\text{mm}^3$
ONU Weight				
Type	Weight	Each Net Weight		
AK-G105	0.3kg	0.15kg		

## Order Information

Model	Description
AK-G105	GPON ONU, One 10/100/1000M RJ45 port.