



AK-G411/G411W GPON SFU

Introduction

AK-G411/G411W GPON ONU is our latest product which offer: 4 FE interfaces, 1 WIFI interface, 1 RF(CATV) interface. It's suitable for home and small enterprises use and well fit for FTTH high speed data transfer.

Appearance



Key Features

- ☑ 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 2.5Gbps bandwidth reasonably, guaranteeing a reliable QoS.
- ☑ Supports IGMP multicast, effective use of broadband;
- ☑ Supports multicast VLAN;
- ☑ Supports ITU-T G.984 protocol;
- ☑ Supports remote management through OLT and local console management as well.
- ☑ Supports FEC and DBA;
- ☑ Supports IEEE802.1Q VLAN protocol;
- ☑ Supports remote loopback and network status diagnosis;
- ☑ Supports storm control;
- ☑ Support WIFI 802.11b/g/n;
- ☑ Support CATV access.



Technical Parameter

Module	AK-G411/G411W
User interface	4×10/100M RJ45 adaptive interfaces、1×WIFI、1×CATV (Optional)
PON	Transmission speed :upstream 1.251Gbps /downstream 2.5Gbps Network coverage radius: 20KM Optical receive sensitivity:<=-27dBm Luminous power:>0dBm Security: ONU authentication mechanism
Protocol	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
VLAN	Port-based VLAN GVRP IEEE 802.1Q VLAN
WIFI	IEEE 802.11b/g/n WIFI
CATV	BiDi (fiber wavelength 1550nm/1310nm) RF frequency range: 47MHz — 1000MHz RF output impedance :75Ω
QOS	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
Safety	IEEE 802.1x, access control based upon Port; support local and remote RADIUS. CHAP,EAP certification; Storm control, port protection,
Management	Web, TELNET , and so on
Size	169mm(L)×133mm(W)×33mm(H)
Environment	Operating temperature:0℃~60℃; Operating humidity:10%~85% non-condensing
	Storage temperature:-40℃~80℃; Storage humidity:5%~95% non-condensing
Power supply	110~240VAC 12V/1.0A DC power interface size:2.1mm/5.5mm
Power Consumption	5.0W

Interface

Port	Description
LAN1-LAN4	RJ-45 Ethernet interface, through it to connect to the local Network, 10/100Mbps adaptive
PON	SC/PC Single-mode fiber socket, for connecting with operator access-network optical signal.
RST	Reset
DC	DC-in, for power supply.
Laser IN	CATV laser in
CATV	CATV output interface



Indicator

LED Light	Status	description
PWR	Off	Device has no power supply
	On	Device has power supply
PON	Off	ONU hasn't started activation process
	Flicker	ONU is activating
	On	Activation is successful
LOS	Off	Fiber connection is successful
	Flicker	Fiber connection is fail
LAN1~LAN4	Off	No network connection
	On	Network connection is successful
	Flicker	Data is transferring
WIFI	Off	No power supply or the wireless interface is forbidden
	On	Wireless On
	Flicker	Date is transferring
CATV	Off	No power supply or CATV RF interface is forbidden
	On	CATV interface is working

Order Information

Model	Description
AK-G411	GPON,4*10/100Base-T,1*WLAN(802.11b/g/n),1*CATV (double fiber tri-direction) plastic housing
AK-G411W	GPON,4*10/100Base-T,1*WLAN(802.11b/g/n), 1*CATV (single fiber tri-direction) plastic housing