



AK-G410 GPON SFU

General Description

AK-G410 GPON ONU is our latest product, which supports: 4 x FE ports, 1 x RF CATV port(Optional), 1 x Optical PON port for uplink(If model with CATV, fiber optical interface will be two ports without WDM module inside / one port with WDM module inside), better use for home and small enterprises. Well fit FTTH high speed data transfer.

Outline



Key Features

- ☑ Using point to multipoint network topology, effectively collect users' dispersing Ethernet services and convergence, providing four 10/100M adaptive Ethernet interfaces on the user-side, one WIFI interface (External double antenna), one CATV interface for connecting the next terminal equipments;
- ☑ DBA makes all users share the 2.5Gbps band width more reasonably , and realizes reliable QoS, ensures the quality of different services in the same network;
- ☑ Support multicast VLAN ; support IEEE802.1Q VLAN;
- ☑ Adopting GPON upstream ,meet ITU-TG.984/ standards;
- ☑ Provide remote management through OLT , support local console management ;support user-side Ethernet interface line loopback detection;
- ☑ Support DHCP Option60 reporting physical location information of the Ethernet interface;
- ☑ Support PPPoE+ features ,for accurate identification of users;
- ☑ Support IGMP Snooping;
- ☑ Support broadcast storm suppression;
- ☑ Support WIFI 802.11b/g/n;
- ☑ Support Tri-Play CATV access.



Technical Parameters

Model	AK-G410
User interface	4x10/100M RJ45 adaptive interfaces、1xWIFI、1xCATV (Optional)
PON	Tx :1.25Gbps ; RX :2.5Gbps Network coverage radius: 20 KM High sensitivity optical receiver :≤-28dBm Optical power: >0dBm Security: ONU authentication mechanism
Standards followed	IEEE 802.3ah YD/T 1475-2006 IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.11b/g/n 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	Tri-play(fiber wavelength 1550nm/1310nm/1490nm) RF frequency range: 47MHz — 1000MHz PF output impedance :75Ω
QoS	Back pressure flow control (half duplex) IEEE 802.3x flow control(full duplex) Prevent Head Of Line mechanism IEEE p802.1p, CoS Four transmit queues at a same port map eight priority 802.1P WR、SP queue scheduling algorithm Port speed-limited
Reliability	UDLD
Network security	IEEE 802.1x, Port-based access control, Support for local and remote authentication, EAP termination or transparent transmission ; maximum number of users limited per port ; Port Protect ; Packets storm control ;
Manage modes	Web, TELNET , and so on
Physical size	169mm(L)×133mm(W)×33mm(H)
Environment	Working environment:0℃~60℃ ; 10%~85% , non - condensing Storage environment: -40℃~80℃ ; 5%~95% , non - condensing
Power interface	110~240AC , 12V/1500MA DC , 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



LED

LED Indicator	Status	Description
PWR	On	Power Good
PON	On	Success Register to OLT(Optical Line Terminal)
	Blink	Success Connect to Fiber
LOS	Off	Success Connect to Fiber
	Blink	Fail Connect to Fiber
LAN1~LAN4	On	Success Connect to LAN
	Blink	Under Data Transfer
WLAN	On	Wireless On
	Blink	Wireless Status. Blink means there have Data under transfer.
CATV	On	CATV Working
	Off	CATV Un-Working

Order Information

Model	Description
AK-G410	4FE+WIFI+CATV(Optional)