



## AK-E412 EPON SFU

### Introduction

AK-E412 is a fast, convenient, flexible, secure and highly integrated EPON broadband connection device. It provides 4 FE interfaces and 1 CATV interface, it's very suitable for home and small business users and can meet the requirements of FTTH high speed data transfer.

### Appearance



### Features

- ☑ Adopt PTMP (point to multipoint) network topology, collect and distribute scattered Ethernet services effectively, provide 10/100/M 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 OAM management protocol based on IEEE802.3, 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;
- ☑ Support CATV.



## Parameters

Model	AK-E412
User interface	4*10/100M RJ45 port, 1*CATV
PON	Transmission speed: upstream/downstream symmetrical 1.25Gbps Network coverage radius: 20km Optical receive sensitivity:≥-27dBm Luminous power:<0dBm Security: ONU authentication mechanism
CATV	double-fiber bi-direction (wavelength:1550nm/1310nm/1490nm) RF frequency range: 47MHz — 1000MHz RF output impedance :75Ω
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 SP, WRR queue scheduling algorithm Port rate limit
Security	IEEE 802.1x, access control based upon 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°C~60°C; Operating humidity: 10%~85% (no-condensation)
	Storage temperature: -40°C~80°C; Storage humidity: 5%~95% (no-condensation)
Power supply	Input AC 110~240V Output DC 12V/1A
Power Consumption	12W

## Dimension and Weight

AK-E412	ONU	Carton (with device)	Outer Box(with device)
Dimension L*W*H/mm	174*133*35	296*179*74	400*310*390
Weight/kg	0.30	0.61	7.9

## Order Information

Model	Description
AK-E412	EPON SFU,4*FE 1*CATV(double-fiber bi-direction), white&black (specify metric or imperial)