
AK-E106 EPON SFU

General Description

AK-E106 is a new EPON ONU production of our passive optical network terminal series. It provides one 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

- ☑ 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 bandwidth reasonably, guarantee 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

| | |
|--------------------------|---|
| Model | AK-E106 |
| User interface | 1 10/100/1000M RJ45 port. |
| PON | Transmission speed :upstream/downstream symmetrical 1.25Gbps Network coverage radius: 20KM Optical receive sensitivity: $\geq -27\text{dBm}$ Luminous power: $< 0\text{dBm}$ 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 |
| 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 | Various management modes such as Web, TELNET Debug function. |
| Dimension | 136mm(L) x130mm(W) x31mm(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/0.5A DC |
| Power Consumption | 6W |

Volume and Weight

| ONU Dimension | | | | |
|-----------------------|--------|-------|-----------------|------------------------|
| Type | Length | Width | Height | Volume |
| AK-E106 | 136mm | 130mm | 31mm | 548080mm ³ |
| ONU Packing Dimension | | | | |
| Type | Length | Width | Height | Volume |
| AK-E106 | 405mm | 382mm | 38mm | 5878980mm ³ |
| ONU Weight | | | | |
| Type | Weight | | Each Net Weight | |
| AK-E106 | 0.14kg | | 0.31kg | |

Order Information

| Model | Description |
|---------|-------------------------------------|
| AK-E106 | EPON ONU, 1*10/100/1000M RJ45 port. |