

YX2806 EPON SFU

Introduction

YX2806 is an EPON broadband terminal device designed for fulfilling FTTH/FTTO request of telecom operators, and internet access of SOHO people. This product is based on stable and mature Gigabit EPON technology, which has high performance/price ratio, and the technology of Layer 2 Ethernet switch and high quality VoIP as well. It is highly reliable and easy to maintain, with guaranteed QoS. And it is fully compliant to technical regulations such as IEEE802.3ah and technical requirement of EPON Equipment (V2.1 and above version) from China Telecom.



Special features

- Plug and play, integrated auto-detecting, auto-configuration, and auto firmware upgrade, etc.
- Integrated OAM remote configuration and maintenance function.
- Support rich QinQ VLAN function and IGMP snooping multicast feature.
- Integrated line testing compliant with GR-909.
- Support transceiver diagnostic monitoring, transmitter disable, etc.
- Fully compatibility with OLT based on Broadcom/PMC/Cortina chipset.
- For small and medium-sized operators, VoIP services are customizable.

Technical parameters

Technical items	Descriptions
Upstream PON interface	1 EPON interface, SC single-mode/single-fibre, symmetric 1.25Gbps
Wavelength	Tx 1310nm, Rx 1490nm
Optical interface	SC/PC connector
Downstream LAN interface	4 10/100Mbps auto adaptive Ethernet interfaces, Full Duplex/Half Duplex, RJ45 connectors
Downstream POTS interface	2 FXS, RJ11 connectors
Indicators	8 indicators, for status of power supply, PON, LAN and POTS.
DC power supply	+12V, external AC-DC power adaptor
Power switch	1
Reset button	1, for reset and restore to factory configuration
Power consumption	≤5W
Operating condition	Operating temp: -5 - +55℃, operating humidity:10-90%(non-condensed)
Storing condition	Storing temp: -30 - +60℃, storing humidity:10-90%(non-condensed)
Dimension	160mm*115mm*32mm (length*width*height)
Net weight	0.5Kg

Ethernet Service Functions

- Full speed non-blocking switching.
- 1K MAC address table.
- 64 full range VLAN ID.
- Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc.
- Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc.
- Support auto polarity detection of Ethernet ports (AUTO MDIX).
- Integrated IEEE802.1p QoS with four level priority queues.
- Support IPv4 IGMP snooping and IPv6 MLD snooping.

POTS Service Functions

- 1) Call protocol: SIP(IMS compatible)/H.248(Megaco)/MGCP optional, seamless compatible with all popular call agent.
- 2) Integrate heartbeat function and support active/standby call agent.
- 3) Voice coding: ITU-T G.711/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent.
- 4) Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length.
- 5) Support high/low speed fax/Modem, bypass fax, and T38 fax.
- 6) Support RFC2833 and redundant RFC2833, difference rings, MD5 authentication, call

forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service.

- 7) Multi-party conferencing.
- 8) Line testing according to GR-909.
- 9) IP address assignment: dynamic PPPoE/DHCP Client and static IP.
- 10) Support WEB, CLI.
- 11) Integrated CTC OAM and TR069.
- 12) Call loss less than 0.01%.

Application chart

