YX2800VT EPON 4FE+2POTS+CATV SFU

Introduction

YX2800VT is an EPON broadband terminal device designed for fulfilling FTTx and triple play service demand of cable television operators. This box is basing on the stable and mature Gigabit EPON technology, which has high performance/price ratio, and the technology of Layer 2 Ethernet switch, CATV and high quality VoIP as well. It is highly reliable and easy to maintain, with guaranteed QoS for different service. And it is fully compliant to technical regulations such as IEEE802.3ah and technical requirement of EPON Equipment (V2.1) from China Telecom.

Special features

● Plug and play, features 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 on POTS.

● Support EPON fiber transceiver, CATV Rx and RF output diagnostic monitoring, EPON fiber transmitter and RF receiver disable remotely, etc.

● Support 2xLLIDs, one for data service, the other for VoIP service.

● 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
Uplink interface	Single fiber triplexer incorporates a symmetric 1.25Gbps upstream / 1.25Gbps downstream and 45~875MHz CATV analogue signal
Wavelength	EPON Tx 1310nm, EPON Rx 1490nm, CATV Rx 1550nm
Fiber connector	SC/APC connector
Downlink of DATA	4x 10/100Mbps auto adaptive Ethernet interfaces, Full Duplex / Half Duplex, AUTO-MDIX, RJ45 connectors
Downlink of POTS	2 FXS, RJ11 connectors
Downlink of CATV	SCTE F type
Indicators	10x indicators, for status of power supply, PON, LAN, POTS and CATV.
DC power supply	+12V, external AC-DC power adaptor
Power switch	1
Power consumption	13W
Operating condition	Operating temp: -5 - +55°C, operating humidity:10-90% (non-condensed)
Storing condition	Storing temp: -30 - +60°C, storing humidity:10-90% (non-condensed)
Dimension	207mm*147mm*39mm(length*width*height)
Net weight	1Kg

Ethernet Service Functions

1) Full speed non-blocking switching.
2) 1K MAC address table.
3) 64 full range VLAN ID.
4) Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc.
5) Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc.
6) Support auto polarity detection of Ethernet ports (AUTO MDIX).
7) Integrated IEEE802.1p QoS with four level priority queues.
8) Support IPv4 IGMP snooping and IPv6 MLD snooping.

POTS Service Functions

1) Call protocol: SIP(IMS compatible), seamless compatible with all popular call agent, including HUAWEI, ZTE, Alcatel-Lucent, etc.
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, bypass fax, and T38 fax.
6) Support high speed MODEM(56Kbps) dial access.
7) 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.

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

CATV Service Functions

1) RF frequency: 45~875MHz.
2) Turn on/off RF output remotely.
3) Real time shows RF level on Web.
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Application chart