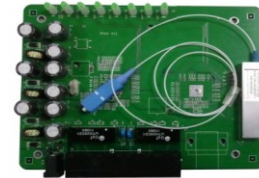# Low Density EPON Data ONU

Introduction

YX2801, YX2804, YX2804i are low density EPON data ONUs designed for fulfilling FTTH request of telecom operators, internet access of SOHO people and renovation request of EPON+EOC infrastructure of cable TV operators. These products are based on the stable and mature Gigabit EPON technology, which has high performance/price ratio, and the technology of layer 2 Ethernet switch as well. They are highly reliable and easy to maintain, with guaranteed QoS. And they are fully compliant to technical regulations such as IEEE802.3ah and technical requirement of EPON Equipment (V2.1 and above version) from China Telecom.

YX2801	YX2804	YX2804i

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.
- Functions like transceiver diagnostic monitoring, transmitter disable, etc.
- Fully compatibility with OLT based on Broadcom/PMC/Cortina chipset.
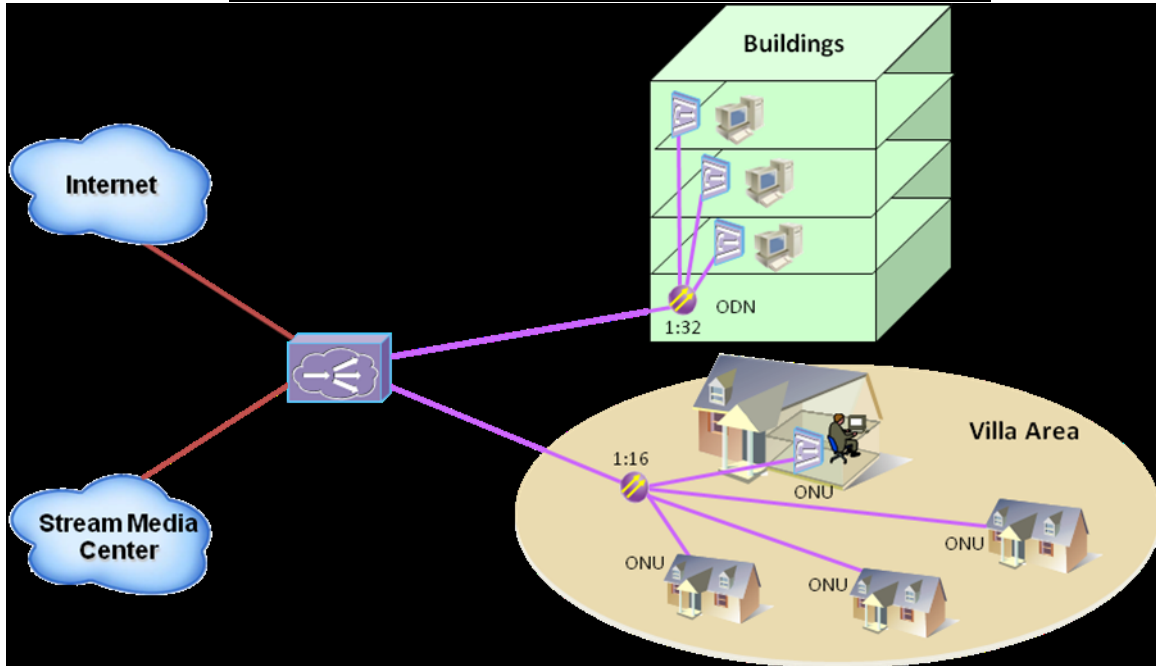
Functions

- Full speed non-blocking switching.
- 1K MAC address table.
- 64 full range VLAN ID.
- Integrated QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc.
- Support port monitoring, port mirroring, port rate limiting, port SLA, etc.
- Support auto polarity detection of Ethernet ports (AUTO MDIX).
- Support IEEE802.1p QoS with four level priority queues.
- Support IPv4 IGMP snooping and IPv6 MLD snooping.
  Notes: YX2801 doesn't support the above features.

Technical parameter

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	YX2804, YX2804i: 4x 10/100Mbps auto adaptive Ethernet interfaces, Full Duplex/Half Duplex, RJ45 connectors YX2801: 1x 10/100/1000Mbps auto adaptive Ethernet interface, Full Duplex/Half Duplex, RJ45 connector
Indicators	YX2804, YX2804i: 6 indicators, for status of power, PON port and 4x Fast Ethernet ports. YX2801: 4 indicators, for status of power, PON port and 1 Giga-Ethernet port.
DC power supply	+12V, external AC-DC power adaptor
Power switch	1, Power On/Off
Power consumption	≤3W
Operating condition	YX2801, YX2804 Operating temp: -5 - +55℃, operating humidity:10-90%(non-condensed) YX2804i Operating temp: -40 - +80℃, operating humidity:10-90%(non-condensed)
Storing condition	Storing temp: -30 - +60℃, storing humidity:10-90%(non-condensed)
Dimension	YX2801, YX2804: 159mm*115mm*35mm (length*width*height) YX2804i: 142 mm*113mm*20mm (length*width*height)
Net weight	YX2801: 0.24Kg; YX2804:0.25Kg; YX2804i: 0.12Kg

Application chart

Notes: ONU means YX2801 and YX2804.

Ordering information

Product model	FE	GE	Work temperature	Product Form
YX2801	×	1	-5 - +55℃	Plastic casing
YX2804	4	×	-5 - +55℃	Plastic casing
YX2804i	4	×	-40 - +80℃	PCBA