

V2801D

Datasheet v1.0



- ✓ 1GE+CATV Dual Mode
- ✓ Special cabinet
- ✓ Routing and Bridging Mode
- ✓ Prevent Rogue ONU and Powerful Firewall



Product overview

G/EPON 1GE+CATV ONT is support Dual mode(EPON and GPON), It can also be applied to a wide temperature environment, and also has a powerful firewall function.

G/EPON 1GE+CATV ONT meets telecom operators FTTO (office), FTTD (Desk), FTTH(Home) broadband access, TV and other requirements. The box is based on the mature Gigabit GPON/EPON technology, highly reliable and easy to maintain, with guaranteed QOS for different service. And it is fully compliant with technical regulations such as ITU-T G.984.x and IEEE802.3ah.

Product	User interface	Main chipset
V2801D-1GT1	1GE+CATV	ZX279125



functional characteristics

Satisfactory standard

- ◆ Meet IEEE802.3ah standards and China's CTC3.0 standards
- ◆ Meet ITU-TG.984.x standards

SFU/HGU ONU

- ◆ Routing and Bridging Mode
- ◆ Well connect with OLTs of mainstream(Huawei\ZTE\FH)

Layer2

- ◆ 802.1D&802.1ad bridging
- ◆ 802.1p CoS
- ◆ 802.1Q VLAN

Layer3

- ◆ IPv4
- ◆ DHCP Client/Server
- ◆ PPPoE、 NAT、 DMZ、 DDNS

Multicast

- ◆ IGMP v2/v3、 IGMP snooping

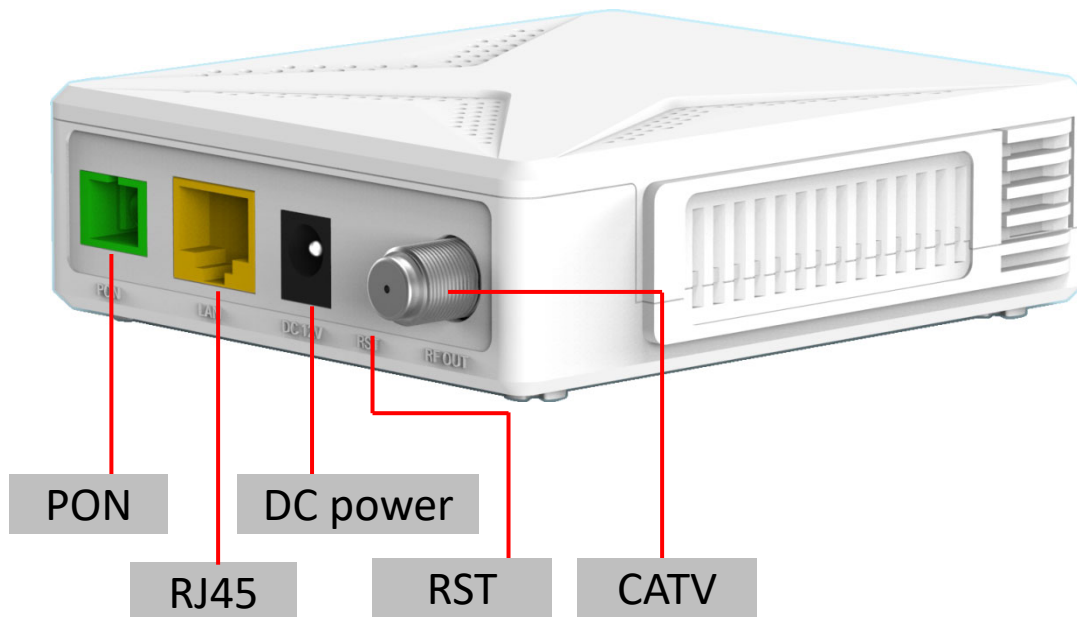
Security and Firewall

- ◆ Prevent Rogue ONU
- ◆ DDOS, Filtering Based on ACL/MAC/URL



functional characteristics

Product appearance features





technical indicator

Technical item	1GE+CATV
Optical interface	1 G/EPON port(EPON PX20+ and GPON Class B+) (SC/APC) Receiving sensitivity: $\leq -28\text{dBm}$ Transmitting optical power: $0 \sim +4\text{dBm}$ Transmission distance: 20KM
Wavelength	Tx 1310nm, Rx 1490nm
LAN interface	1x 10/100/1000Mbps auto adaptive Ethernet interfaces Full/Half, RJ45 connector
CATV interface	RF, optical power : $+2 \sim -18\text{dBm}$ Optical receiving wavelength: $1550 \pm 10\text{nm}$ RF frequency range: $47 \sim 1000\text{MHz}$ RF output impedance: 75Ω RF output level: $\geq 70\text{dBuV}(0 \sim -15\text{dBm})$ AGC range: $0 \sim -15\text{dBm}$ MER: $\geq 32\text{dB}(-14\text{dBm optical input})$
LED	5, For Status of POWER、LOS、PON、LAN、CATV
Operating condition	Temperature: $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$ Humidity: $10\% \sim 90\%$ (non-condensing)
Storing condition	Temperature : $-30^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Humidity : $10\% \sim 90\%$ (non-condensing)
Power supply	DC 12V/0.5A
Power consumption	$\leq 4.2\text{W}$
Dimension	100mm×92mm×30mm (L×W×H)
Net weight	0.13Kg



technical indicator

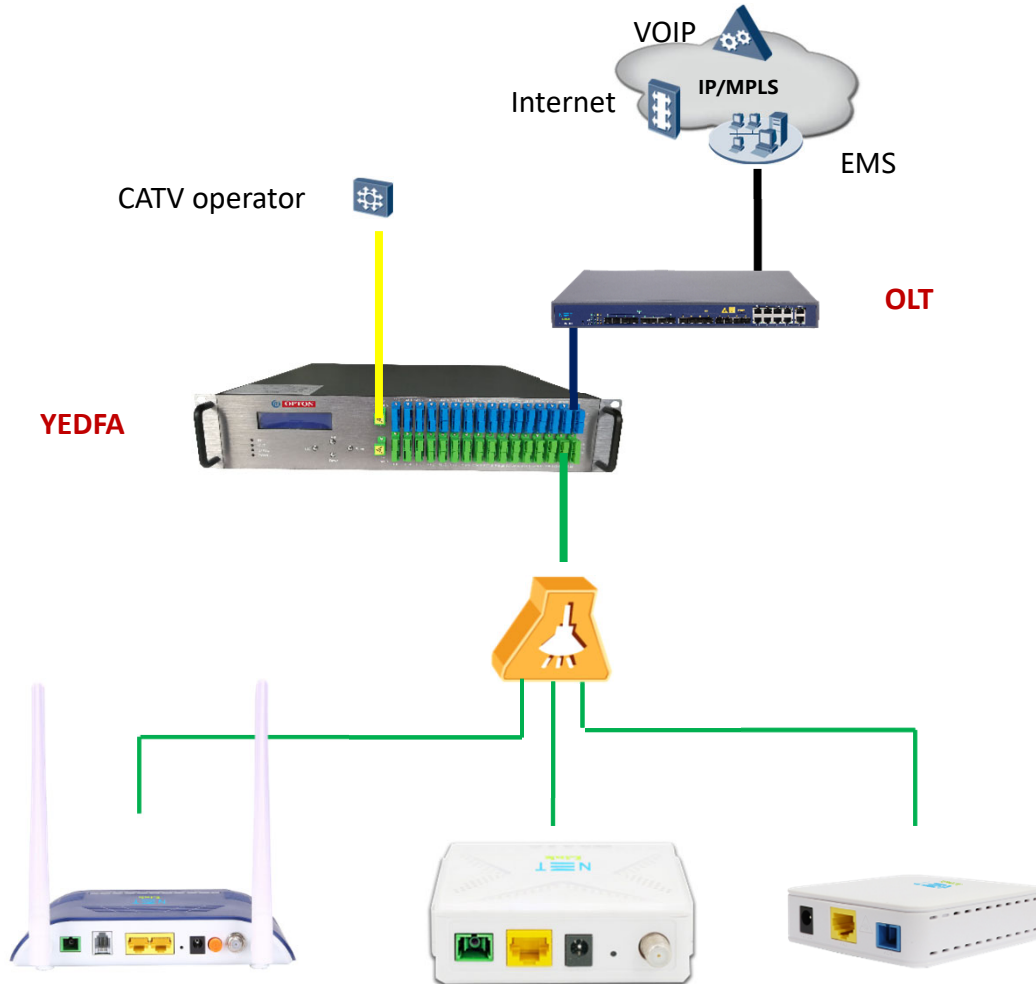
V2801D-1GT1: LED information



LED	Mark	Status	Description
Power	POWER	On	The device is powered up.
		Off	The device is powered down.
Registration	PON	On	The device is registered to the PON system.
		Off	Device is not registered to the PON system.
		Blink	Device registration is incorrect.
Optical signal loss	LOS	Blink	Device does not receive optical signals.
		Off	Device has received optical signal.
LAN	LAN	On	Port is connected properly.
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data.
CATV	CATV	On	CATV Output is on
		Off	CATV Output is off



Typical application diagram



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