

EPGT835 ONU

EPGT835 is a remote ONU (Optical Network Unit) of EPGT800 series, which can provide 4*FE interfaces (support IPTV), 2*POTS interfaces, and one Wi-Fi interface. It applies to FTTH applications, which provides Ethernet, telephone, IPTV and WLAN transmission channels by using one ONU.



Features

Technical specifications

PON optical interface	Interface type: SC/PC Fiber mode: single fiber Wavelength: 1310/1490nm
Ethernet electrical interface	Interfaces number: 4 Standard: IEEE 802.3 Data Rate: 10/100M auto-sensing Interface type: RJ45 Working mode: half/full duplex, auto-sensing MDI/MDIX: auto-sensing
POTS interface	Interfaces number: 2 Interface type: RJ11 Bell stream voltage: 50±10VAC, 30±10H Transmission distance: 3km

System features

Data rate	Uplink/downlink 1.25Gbps	MAC address	8k
Transmission distance	20km	Split ratio	1:64
Voice	VoIP mode, it supports MGCP, SIP protocol Support auto-switching function of soft-switch between master and spare RJ11 interface for common phone Support Voice encoding/compression technologies such as G.711 A-Law/u-Law, G.729A/B, G.723.1-5.3/6.3 and G.726. Encoding methods could be dynamically switched according to requirements		
VLAN	Support IEEE 802.1Q (VLAN) Support 16 VLAN Support IEEE 802.1ad (QinQ) Support VLAN transparent transmission Support VLAN trunk Support VLAN translation	Layer-2 function	Support store and forward mode and layer-2 wire-speed forwarding Maximum frame: 1600 bytes Support broadcasting storm control Support port/flow mirroring Support rate-limiting of bi-direction interfaces
Flow control	Support IEEE 802.3x(full duplex flow control) and back pressure flow control(half duplex)	DBA	Bandwidth increment is 64kbit/s Support fixed bandwidth/guaranteed bandwidth/ maximal bandwidth, delay priority and etc SLA parameter

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Multicast	<p>Based on SCB(single copy broadcast)</p> <p>Support IGMP V1/V2</p> <p>Support IGMP Snooping</p> <p>Support 256 groups at most</p> <p>Support multicast authority control</p> <p>Support fast-leave function of IGMP member</p> <p>Support static multicast</p> <p>Capacity of 8M bytes can support IPTV burst flow</p>	QoS	<p>Support IEEE 802.1P(COS PRI) and DSCP</p> <p>Support service classification based on port, MAC address, IP address, TCP/UDP port number, ToS(Type of Service)/Diffserv</p> <p>Support SP queue schedule algorithms</p> <p>Support 8 classes priority queuing for each port</p>
Security	<p>Support AES-128, data encryption for both upstream and downstream</p> <p>Support dynamic update of key</p>	Maintenance	<p>Support centralized management of OLT based on OAM</p> <p>Support alarm and capability statistic, flow inspection, loop-back test, remote power-fail inspection</p> <p>Support long-distance on line upgrade of timing automatism and batch</p>
Wireless function	<p>WLAN with high data transmission of 54Mbps, compatible with IEEE 802.11b/g, and it supports 2.4GHz equipment</p> <p>Support multi SSID (maximal number is 4), WPS, auto-channel choice, hide SSID</p> <p>Support 64/128 bit WEP, 802.1x, WPA and WPA2 for wireless security</p> <p>Support STA mutual isolation, MAC address access/refuse list and WMM.</p> <p>Wide range of wireless signal rate, complied with 54, 48, 36, 24, 18, 12, 9, 6 Mbps of IEEE 802.11g and 11, 5.5, 2, 1 Mbps of IEEE 802.11b</p> <p>Wireless and modulating type: IEEE 802.11b: DQPSK, DBPSK, DSSS, CCK ; IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM, OFDM</p> <p>Transmission distance: outdoor 100m, indoor 60m (Subject to environmental)</p>		
Router function	<p>Support IP route and source/sink route</p> <p>Support DHCP server, client and agent</p> <p>Support UPnP, NAT, NAPT, DMZ and etc</p> <p>Support IP QoS</p>		
Physical specifications			
Dimension(mm) (W*D*H)	265×145×40	Power supply	With power adapter (DC12V/1.2A) Range: AC100V~AC240V, 47~63Hz
Weight	<0.6kg	Power consumption	<15W
Environment	<p>Working temperature:0℃~45℃</p> <p>Storage temperature:-10℃~70℃</p> <p>Humidity: 10%~90% (non-condensing)</p>		

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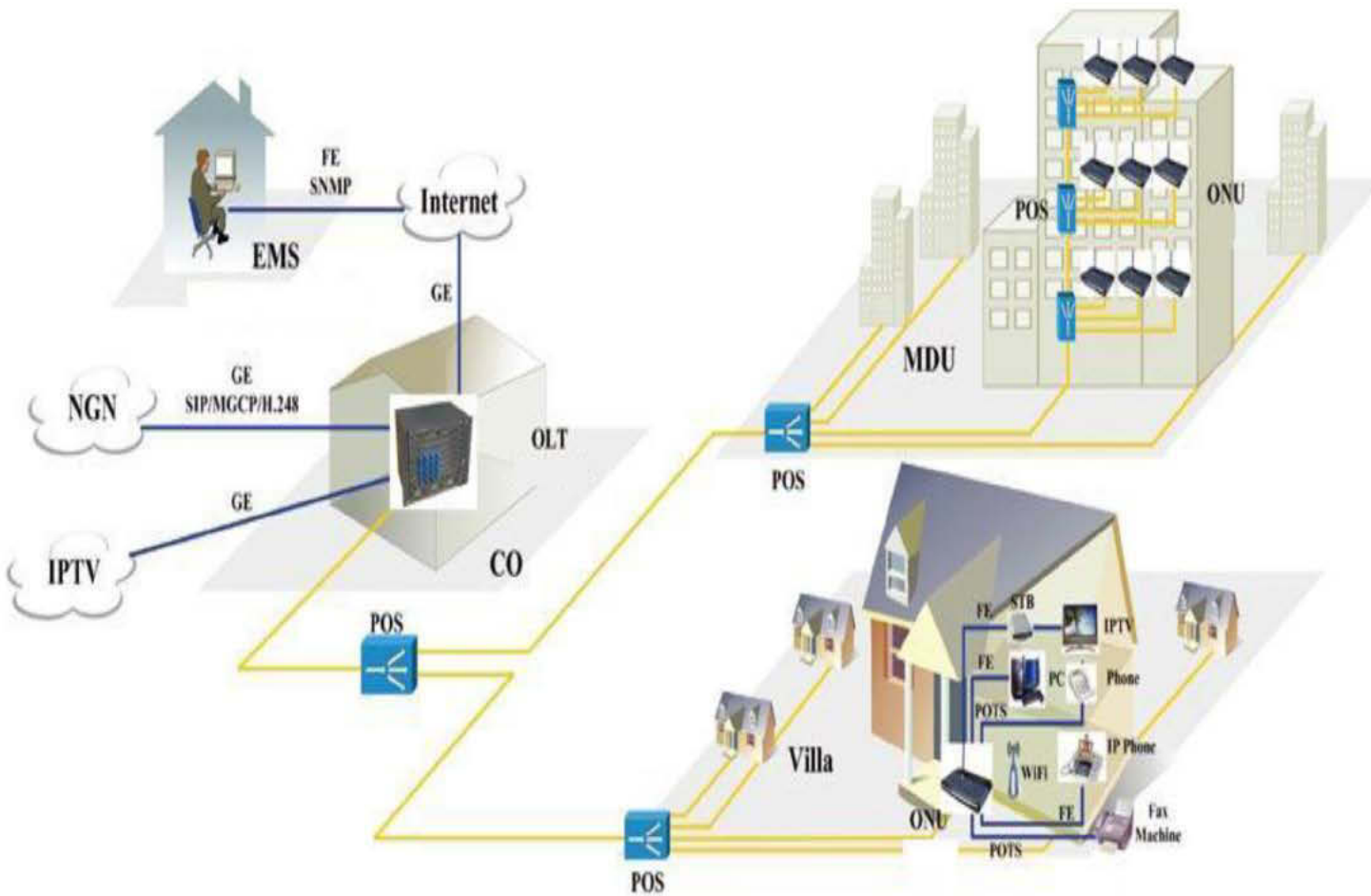
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Application

EPGT835 works with the office device OLT can build the PON network through the connection of the fiber and the ODN (optical distribution network). EPGT835 can be located at home to provide Triple Play access for villa and apartment.



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