

EPGT831 ONU

EPGT831 is a remote ONU (Optical Network Unit), which can provide 4*FE interfaces (support IPTV), 2*POTS interfaces, and EPGT831 also provides one CATV interface (optional). It applies to FTTH applications, which provides Ethernet, telephone and IPTV transmission channels (Triple Play at home) by using one ONU.



Features

Technical specifications			
PON optical interface	Interface type: SC/PC Fiber mode: single fiber Wavelength: 1310/1490nm		
CATV/PON optical interface (optional)	Interface type: SC/APC Fiber mode: single fiber Wavelength: 1310/1490/1550nm		
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		
CATV electrical interface RF (optional)	Interfaces number: 1 Interface type: RF 75 imperial F head Frequency range: 47M~862MHz Output electrical level: 80dBu		
Local NM	Interface type: RJ45, using Ethernet service interface to realize in-band network management		
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	CATV function	CATV function is optional One CATV optical interface is connected to the CATV transmission network One CATV electrical interface (RF interface) is connected to Video displays Support Triple Play

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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 parameters
Multicast	Based on SCB(single copy broadcast) Support IGMP V1/V2 Support IGMP Snooping Support 256 groups at most Support multicast authority control Support fast-leave function of IGMP member Support static multicast Capacity of 8M bytes can support IPTV burst flow	QoS	Support IEEE 802.1P(COS PRI) and DSCP Support service classification based on port, MAC address, IP address, TCP/UDP port number, ToS(Type of Service)/Diffserv Support SP queue schedule algorithms Support 8 classes priority queuing for each port
Security	Support AES-128, data encryption for both upstream and downstream Support dynamic update of key	Maintenance	Support centralized management of OLT based on OAM Support alarm and capability statistic, flow inspection, loop-back test, remote power-fail inspection Support long-distance on line upgrade of timing automatism and batch
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	Working temperature:0℃ ~ 45℃ Storage temperature:-10℃ ~ 70℃ Humidity: 10% ~ 90% (non-condensing)		

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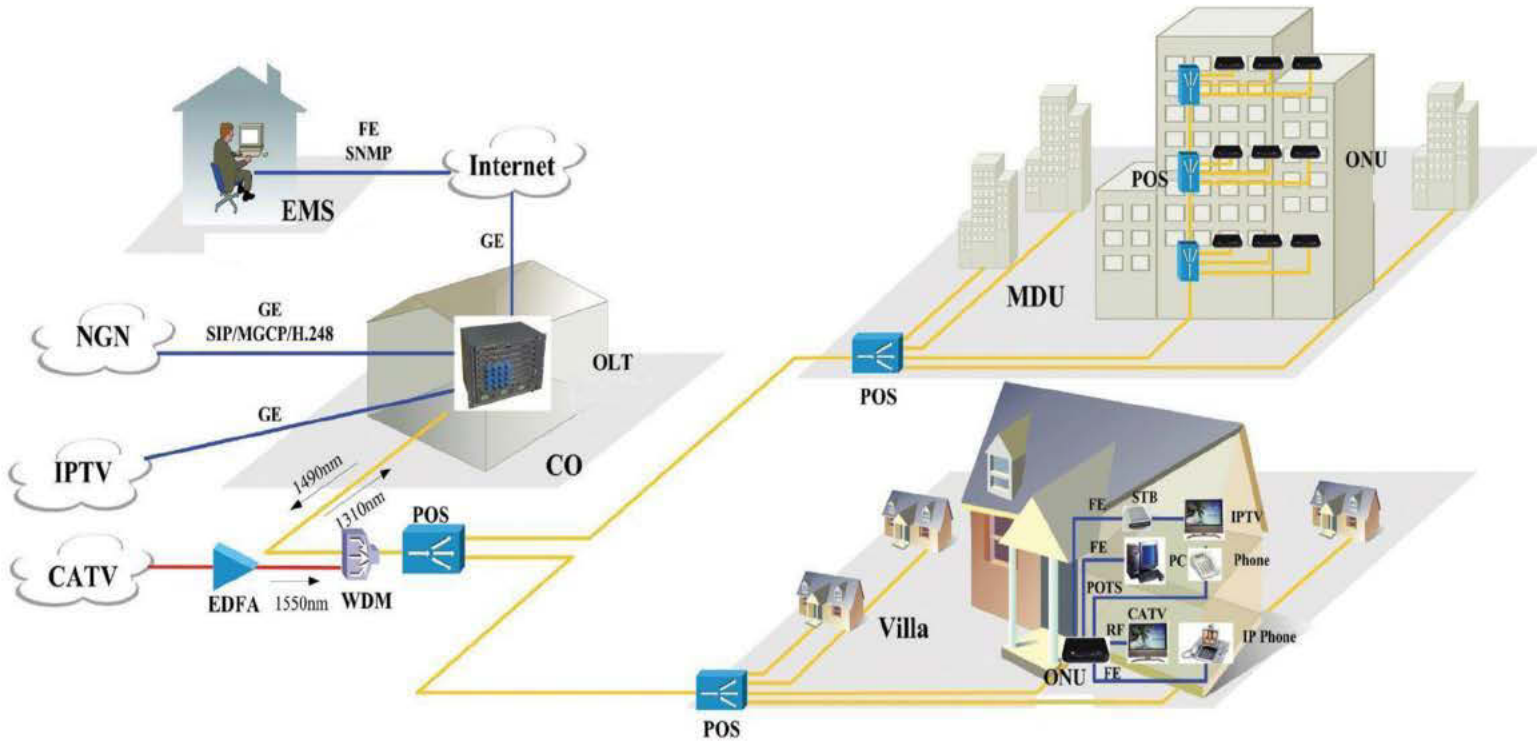
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Application

EPGT831 works with the office device EPGFA6000 Series OLT can build the PON network through the connection of the fiber and the ODN (optical distribution network). EPGT831 can be located at home to provide Triple Play access for villa and apartment.



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