

## EasyPath GT831 GEPON ONU

EasyPath GT831 is a remote ONU (Optical Network Unit) of EasyPath GT800 series, which can provide 4\*FE interfaces (support IPTV), 2\*POTS interfaces, and GT831 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.



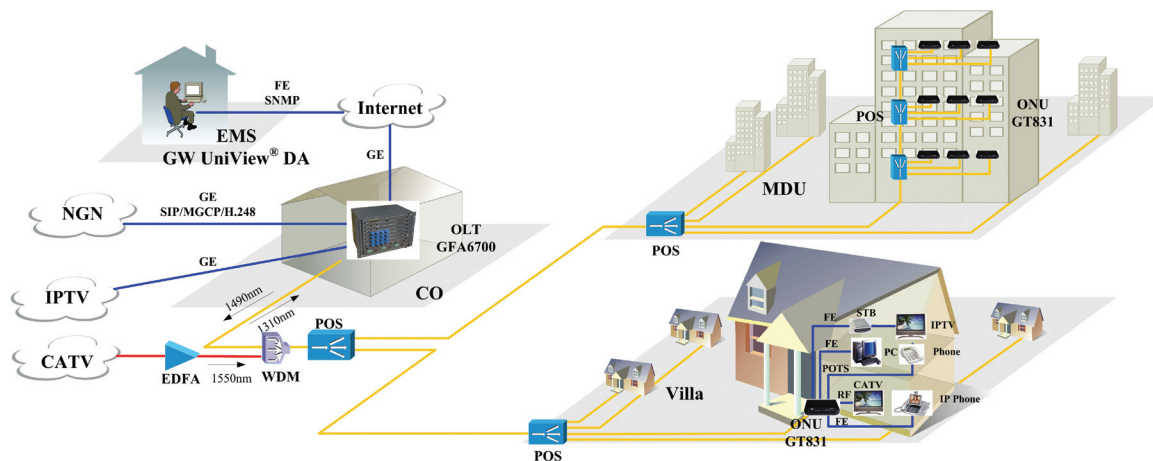
### Features

| Technical specifications                |   |             |  |
|---|---|-------------|--|
| PON optical interface                   | Interface type: SC/PC<br>Fiber mode: single fiber<br>Wavelength: 1310/1490nm  |             |  |
| CATV/PON optical interface (optional)   | Interface type: SC/APC<br>Fiber mode: single fiber<br>Wavelength: 1310/1490/1550nm  |             |  |
| Ethernet electrical interface           | Interfaces number: 4<br>Standard: IEEE 802.3<br>Data Rate: 10/100M auto-sensing<br>Interface type: RJ45<br>Working mode: half/full duplex, auto-sensing<br>MDI/MDIX: auto-sensing   |             |  |
| POTS interface                          | Interfaces number: 2<br>Interface type: RJ11<br>Bell stream voltage: 50±10VAC, 30±10H<br>Transmission distance: 3km   |             |  |
| CATV electrical interface RF (optional) | Interfaces number: 1<br>Interface type: RF 75 imperial F head<br>Frequency range: 47M~862MHz<br>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<br>Support auto-switching function of soft-switch between master and spare<br>RJ11 interface for common phone<br>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<br>CATV function is optional<br>One CATV optical interface is connected to the CATV transmission network<br>One CATV electrical interface (RF interface) is connected to Video displays<br>Support Triple Play |

|                                |   |                   |  |
|--------------------------------|---|-------------------|--|
| VLAN                           | Support IEEE 802.1Q (VLAN)<br>Support 16 VLAN<br>Support IEEE 802.1ad (QinQ)<br>Support VLAN transparent transmission<br>Support VLAN trunk<br>Support VLAN translation   | Layer-2 function  | Support store and forward mode and layer-2 wire-speed forwarding<br>Maximum frame: 1600 bytes<br>Support broadcasting storm control<br>Support port/flow mirroring<br>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<br>Support fixed bandwidth/guaranteed bandwidth/maximal bandwidth, delay priority and etc SLA parameters   |
| Multicast                      | Based on SCB(single copy broadcast)<br>Support IGMP V1/V2<br>Support IGMP Snooping<br>Support 256 groups at most<br>Support multicast authority control<br>Support fast-leave function of IGMP member<br>Support static multicast<br>Capacity of 8M bytes can support IPTV burst flow | QoS               | Support IEEE 802.1P(COS PRI) and DSCP<br>Support service classification based on port, MAC address, IP address, TCP/UDP port number, ToS(Type of Service)/Diffserv<br>Support SP queue schedule algorithms<br>Support 8 classes priority queuing for each port |
| Security                       | Support AES-128, data encryption for both upstream and downstream<br>Support dynamic update of key  | Maintenance       | Support centralized management of OLT based on OAM<br>Support alarm and capability statistic, flow inspection, loop-back test, remote power-fail inspection<br>Support long-distance on line upgrade of timing automatism and batch                            |
| <b>Physical specifications</b> |   |                   |  |
| Dimension(mm) (W*D*H)          | 265×145×40  | Power supply      | With power adapter (DC12V/1.2A)<br>Range: AC100V~AC240V, 47~63Hz   |
| Weight                         | <0.6kg  | Power consumption | <15W   |
| Environment                    | Working temperature:0℃~45℃<br>Storage temperature:-10℃~70℃<br>Humidity: 10%~90% (non-condensing)  |                   |  |

## Application

EasyPath GT831 works with the office device EasyPath GFA6000 Series OLT can build the PON network through the connection of the fiber and the ODN (optical distribution network). GT831 can be located at home to provide Triple Play access for villa and apartment.



## Ordering Info

| Part Number | Description   |
|-------------|---|
| GT831-IBAA  | standalone (plastic shell, mini type),GEPON ONU,4*FE+2*POTS(VOIP), single-mode, single strand, SC/PC, external 220VAC to 12V power module,20km                  |
| GT831-NBAA  | standalone (plastic shell, mini type),GEPON ONU,4*FE+2*POTS(VOIP), single-mode, single strand, SC/PC, external 220VAC to 12V power module(Euro standard),20km   |
| GT831-IBAC  | standalone (plastic shell, mini type),GEPON ONU,4FE+2POTS(VOIP)+1CATV, single-mode, dual-strand, SC/PC, external 220VAC to 12V power module,20km                |
| GT831-NBAC  | standalone (plastic shell, mini type),GEPON ONU,4FE+2POTS(VOIP)+1CATV, single-mode, dual-strand, SC/PC, external 220VAC to 12V power module(Euro standard),20km |