



# EasyPath EP6000 Series ONU GT865



## System Features

Complies with IEEE802.3ah

Application designed specifically for the corridor which is mute and could prevent from dust. It is also lightningproof for power and Ethernet interface.

Embed KM Ethernet exchange. Support KM bandwidth to corridor. Support broadcast service which has 256 broadcast channels according to EPON's SCB technology.

Support dynamic bandwidth assignment and port speed-limit based on bandwidth control for service.

Support 256 VLAN(802.1q) and VLAN pile

Support STP, RSTP and other protocols

Support 8 QoS queues and service priority management

Support port physical isolation and broadcasting storm inhibition

Support IGMP snooping

Support sufficient OAM function such as log recording, reporting alarm event (monitor Link Up/Down event in the port at UNI) to the management system actively. Support power-off alarm remotely, loop-back test, performance monitoring and so on.

Support Ethernet cable detecting. Support remote test for the location of the cable's breakpoint and the short circuit's position which makes maintenance convenient.

The UNI interface speed could be configed by auto-negotiation or be configed as fixed mode

Support configuration and management no matter between long distance or local ONU

Support Up/Downstream encryption and the set-up/updating of the key

### Common Ethernet Service Features

Provides 16x FE (Fast Ethernet) user interfaces

Support IEEE 802.1Q VLAN

8K MAC addresses

Support bandwidth configuration in both directions

Support configuration of the priority for Ethernet port

### TDM Voice Service Features

Provide 16x POTS customer interface

Adopt RJ21 interface and each service line is connected individually;

Adopt TDM over EPON's patent technology. Transmission delay < 1.5ms.

### Network Management Feature

Centralized management, managing all ONU devices of EPON through OLT

Support Telnet remote management

Support SNMP management

Support abundant testing and warning alarm function.

## Overview

EasyPath GT865, as a remote ONU, is able to interconnect with local device such as EasyPath GFA600 series (Optic Line Terminal). It provides a single fiber optic interface and could be connected to Ethernet Passive Optical Network which is composed of OLT and Passive Optic Splitter (POS) through a single fiber. Besides, it could be managed remotely through OLT. It adopts 19-inch (width) and 1U (height) Chassis which has integrated structure and high integration. It could provide 16x 10/100M Ethernet interface and 16-way POTS interface. Two-layer exchange function is embedded.

## Technical Specifications

### Environment Requirements

The range of the whole system's operation temperature is wide.

It can steadily work in the severe environment

Working temperature: 0~45 deg.

Depositing temperature: -10~70 deg.

Relative humidity: 10%~90% ( non-condensing)

### Power Interface

Adopts module power, permitting wide fluctuant voltage, and better anti-interfere, isolation & stability.

Power AC220V

Input voltage range: AC165v~ AC265v

### Power Consumption

Power Consumption < 50W (full-installed)

### PON Optical Interface

Optical Interface Technical Parameters	Optical Interface Technical Specification
Standards Compliance	IEEE 802.3ah 1000Base-PX20-U
Maximum Transmission Distance (Split ratio < 1:16)	20km
Burst Mode Average Transmitter Launch Power	-1~+3dBm
Wavelength	1310nm
Data Rate	1.25Gbit/s
Continuous Mode Sensitivity	≤ -24dBm
Saturation	≥ -6dBm
Receiver Power Receive	
Wavelength	1490nm
Data Rate	1.25Gbit/s
Optical Connective Mode	single-strand SC/PC
Insertion Loss	0.4dB

### Ethernet Interface

Standard: support IEEE 802.3

Transmission rate: 10M, 100M, 10M/100M auto-sensing

Work mode: self-adaptation half/full duplex

Interface type: RJ45 interface, MDI/MDI-X auto-sensing (supporting Auto-Crossover, which means the device could automatically sense crossover or straight-through lines)

CAT3/5 Unshielded Twisted Pair, with Longest transmission distance of 100m

GW TECHNOLOGIES CO., LTD  
Address: No. 38 Shangdi Xilu, Haidian District, Beijing, P.R. China 100085  
Tel: +86-10-62961177 ext 819  
Fax: +86-10-82899881  
Http://www.gwtt.com  
Email: gw@gwtt.com



### Voice Interface

Interface type:RJ21  
 Resistance: composite resistance containing three components  
 200ohm+560ohm//0.1μF  
 Audio frequency: 300 ~ 3400Hz  
 Audio frequency compression ratio: ITU G.711A  
 Loop current: 25mA/line

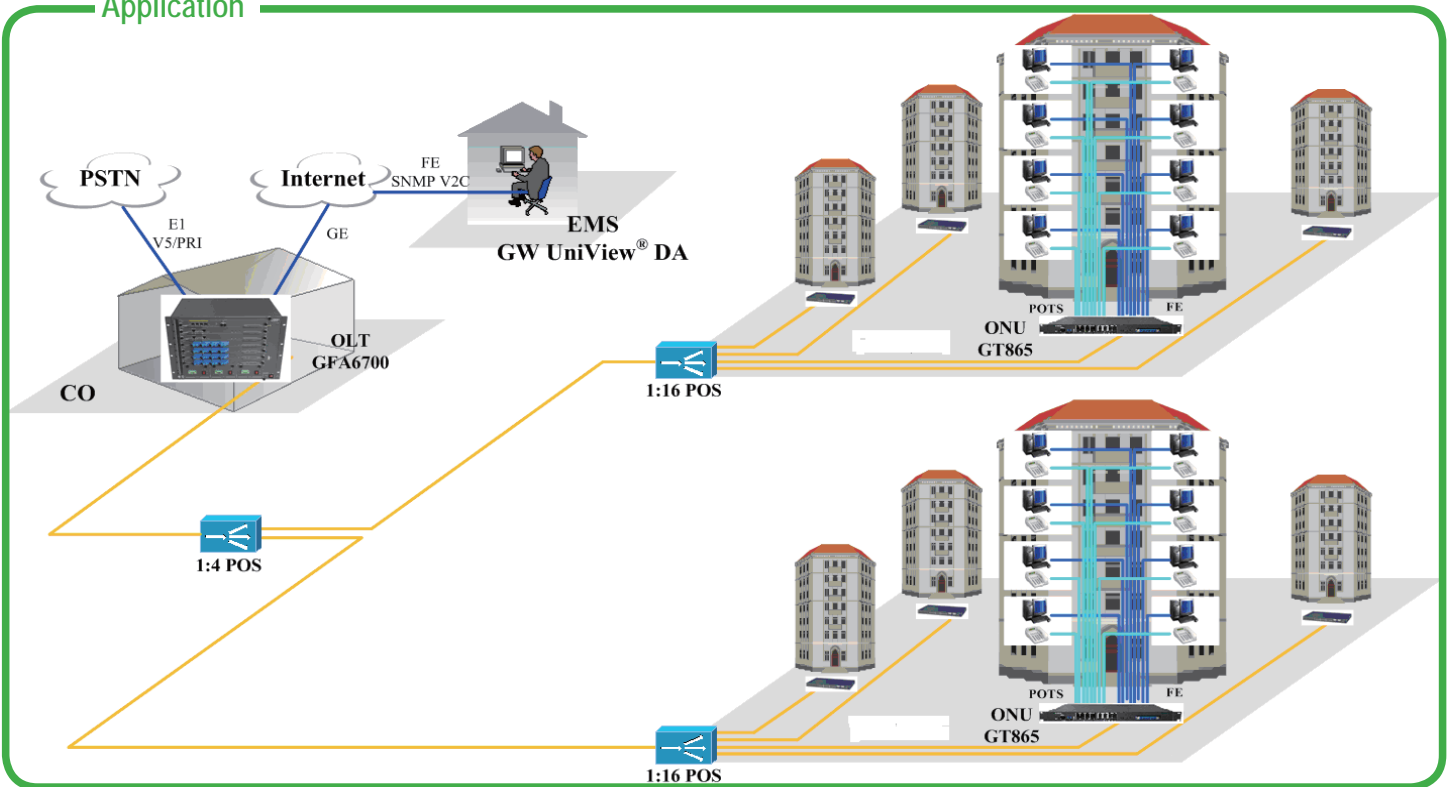
### RS232 interface (NM-S)

Physical interface: RJ-45  
 Protocol: RS232  
 Baud rate: 9600bit/s

### Dimension&Weight

Size: 483mm(19 inch) (W)×44mm (1U) (H)×280mm(D)  
 Weight: 5.5kg

## Application



## Ordering Info

Product number	Description
GT865-BB	Standard remote ONU device, 220VAC power module, basic configuration is 16FE+16POTS(TDM), 20km, optional RJ21 conversion cable
GT865-LB	Standard remote ONU device, 220VAC power module(Euro standard), basic configuration is 16FE+16POTS(TDM), 20km, optional RJ21 conversion cable

GW TECHNOLOGIES CO., LTD  
 Address: No. 38 Shangdi Xilu, Haidian  
 District, Beijing,  
 P.R. China 100085  
 Tel: +86-10-62961177 ext 819  
 Fax: +86-10-82899881  
 Http://www.gwtt.com  
 Email: gw@gwtt.com