GL-GE8004U-HZF (4FE+WIFI+2POTS+USB)

GL-GE8004U-HZF type ONU products fully comply with IEEE 802.3-2005 and the China Telecom XPON device technical specification (V2.1). It is operative, manageable and maintainable at telecommunication level, and can provide high speed data service for customers. It has a PON uplink port that connects to office end apparatus through optical fiber.

Product Interface:

Interface: optical port, voice port 2, network port 1- network port 4(10M/100M), power socket, power switching.
Indicator Light: WPS, wireless, USB 2, Telephone, network port 1-4, Optical signal, PON registration, power supply.

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Product Features:

>Conform to IEEE802.3ah standard

>Support Ethernet service layer 2 switching and wire-speed forwarding of uplink and downlink services

>Support frame filtering and suppression

>Support standard 802.1Q Vlan function, support VLAN conversion

>Support 4094 VLANs (802.1Q)

>Support Dynamic Bandwidth Allocation (DBA) function

>Support QoS, including traffic flow classification, priority marking, queue and dispatch, traffic shaping and traffic control

>Single ONU supports up to 1 LLID.

>Support IGMP Snooping

>Support Ethernet port rate limit loop detection

>Support power failure alarm

>Support lightning protection for power supply and lightning protection for service port

• **Port Features:**
>1 PON ports (1.25G)
>4 10/100M port
>2 voice port

• **Physical Features:**
>Power supply: 12VDC
>Power consumption: 7W
>Working temperature: 0～55℃
>Storage temperature: -30～60℃
>Relative humidity: 10～90% (non-condensing)

• **Product Feature:**
1. HGU ONU product form, supporting bridge and NAT mode;
2. BOB product process;
3. 802.11B /g/n wireless access;
4. 2*3dBi external dual antenna is used wirelessly.
5. USB interface supports configuration saving and recovery;
6. Provide a VOIP interface to connect the ordinary telephone;
7. 12V /1.0A External power supply.

• Product Light Construction Features:

➤ **EPON**

> Meets IEEE 802.3 EPON MAC standard;

> Supports a downlink rate of 1.25gbit /s and an uplink rate of 1.25gbit /s.

> Supports DS/US FEC;

> Supports the downstream encryption and decryption function;

> Supports bandwidth allocation;

> Supports synchronous Ethernet;

> Supports RFC4837;

➤ **GPON**

> Compliant with ITU G.984.x

> Bandwidth US: 1.24416G/DS: 2.48832G

> Supports 32 TCONT, 128 GEM

> Supports AES, key switching

> Supports upstream and downstream FEC

> Supports DBRu

> HW dying gasp

➤ **Business performance**

> Supports bridge mode and routing mode, wan three-tier routing NAT forwarding;

> Supports Tag/Untag Ethernet frames of 802.3 and 802.1q;

> Supports firewall, IP address filtering, MAC address filtering, wireless MAC address filtering, accurate control;

> Supports port priority queues;

> Supports ipv4 default routing, static routing, routing table view, ipv6 static routing, port or VLAN binding;

> Supports DMZ function, port mapping function, port triggering configuration;

> Supports multicast, DN configuration, DDNS, UPNP function, DSCP mapping.

> Supports OAM and EEELLDP;

> Ethernet supports 802.1Qav and 802.1AS/1588v2 timed synchronization;

> Supports DOS attack prevention;

> Supports IEEE 802.3az energy-saving Ethernet capability, and supports 1000base-t, 100base-tx full duplex and 10base-full/half duplex modes.

> Supports flow control based on entry. For businesses exceeding the flow, you can choose to drop packet or Pause frame backpressure.

> Support QoS function;

➢ **VIOP character :**

> Single channel option, 105V most battery design

> Available in either PCM/SPI or ZSI

> Compact structure, 84-pin 7*7mm QFN components

> VOIP processor and SOCS adopt the 5th generation line interface

> The voice path SDK and vp-api-ii software can implement FXS functions

> Energy saving switch control structure: up to 65vrms open circuit, up to 5REN load

> Two-layer PCB design, complete bandwidth BOESCHT function

> Analog telephone adapter (ATAs)

Specification:

Description	Symbol	Test condition	Min	TYP	Max	Unit
Ambient temperature, offset	Ta		-40		+85	℃
Digital and analog power supply voltages	DVDD,AVDD		3.135	3.3	3.465	VDC
Ultimate condition: battery voltage (active state)			-105VDC TO -12VDC			VDC
Line current	ILA		18	25	45	mA
Ringing voltage	VRING	5REN		50	65	Vrms
Second-line return loss	RL	200to3400HZ		30		dB
Longitudinal balance		1KHZ		58		dB
Device power consumption (continuous)	PD(max)	85 度		1.5		W
Connect to ambient thermal resistance				29		℃/W

Power consumption(Buck-Boost)	symbol	Test condition	TYP	Unit
Shutdown	PD	Switcher off	8	mW
disconnect			37	
Low power Idle mode		On-hook	52	
Idle		On-hook	98	
active		Off-hook,300Ω,ILA=25mA	324	
ringing		50Vrms,1REN	462	

➢ **Support Protocols and Standards:**

>ITU-T G.984.1/2/3/4、IEEE802.3、IEEE802.3u、、IEEE802.3x、IEEE802.3z、IEEE802.1d、IEEE802.1p、IEEE802.1q、IEEE802.1x、RFC1155、RFC1157、RFC1112、RFC1113 wait.

➤ **WIFI Feature**

>Technical Norms: IEEE802.11b, IEEE802.11g, IEEE802.11n;

>Debug Mode:

802.11b: DSSS/BPSK/QPSK/CCK

802.11g: OFDM/DSSS/BPSK/QPSK/CCK;

802.11n: OFDM/DSSS/BPSK/QPSK/CCK;

>Speed:

802.11b: compatibility 11,5.5,2,1 Mbps;

802.11g: compatibility 54,48,36,24,18,12,9,6 Mbps;

802.11n: compatibility 130,117,104,78,65,58,52,39,26,19.5,13,6.5Mbps;

>Channel: 1~11 (USA, Canada) ; 1~13 (Europe) ; 1~14 (Japan);

>Frequency Domain : 2.4GHz-2.4835GHz;

>Transmission Power:

11b: 17dBm   +/- 1.5dBm;

11g: 14dBm   +/- 1.5dBm;

11n: 11dBm   +/- 1.5dBm;

>Receive Sensitivity :

11b: 83dBm;

11g: 70dBm;

11n: 64dBm;

>Security Safe: 64/128-bits WEP; WPA/WPA2 wait;

>The Antenna Number: 2*3dBi Internal Antenna;

Application: FTTH FTTX