

GL-GE8004U-HCZ XPON 1GE+3FE+1POTS+1USB+CATV+WIFI ONU

Product Overview:

GL-GE8004U-HCZ is an ONT device terminal in the XPON system. In conjunction with OLT, ONT can provide a variety of broadband services to connected users, such as Internet, VoIP, IPTV, Video Conference and other services. Based on mature, stable and cost-effective XPON technology, it provides one PON interface, one 1000M electrical interfaces and there 100Melectrical interfaces, one USB interface. Single fiber wavelength division multiplexing (downlink 1490nm, uplink 1310nm) is adopted, only one fiber is needed to connect with OLT, and the maximum transmission distance is up to 20km, which supports power outage report function and local WEB management function.

Product Interface:

Interface:optical port,voice port,catv interface,USB interface,network port 1- network port 4,power socket,power switching.

Indicator Light: WPS, wireless, USB, Telephone, network port 1-4, Optical signal, PON registration, power supply.



Product feature:

- 1. HGU ONU product form, supporting bridge and NAT mode;
- 2. BOB product process;
- 3.802.11B /g/n wireless access;

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4.2*5dBi 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.

8.one CATV interface.

Product Description:

Technical Items	Description					
Out Port Contains	1GE+3FE+1TEL+CATV+1USB+5db WiFi					
WiFi Signal	2.4G WiFi					
Wireless gain	5db					
USB	2.0					
LAN	1*10/100/1000Mbps adaptive Ethernet Ports,full/half					
	duplex,RJ45 interface					
TEL	H248/SIP Voice Protocol					
PPPoE/BRIDGE	Support					
Firmware	English					
Package dimensions/Weight	325mm*173mm*35mm/500g					
Fiber Port	1GE-GPON/XPON interface, single-fiber, Downstream rate					
	2.5Gbps,Upstream rate 1.25Gbps					
Wavelength	Tx 1310nm,Rx 1490nm					
Fiber interface	SC/UPC Dual mode/Single mode					
Rx sensitivity	>28dBm(1490nm)					
DC Power	12V/1.0A, external AC-DC power adapter					
Button	Reset,Power,Wlan,Wps					
Operation	working temperature:-5~+55 °C working humidity:10~90%					
	(non-condensation)					
Storage	Storage temperature:-30°C~+60°C storage					
	humidity:10~90% (non-condensation)					

• 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

- > is 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	Та		-40		+85	°C
Digital and analog power supply	DVDD,AVDD		3.135	3.3	3.465	VDC
voltages						
Ultimate condition: battery			-105VD	VDC		
voltage (active state)						
Line current	ILA		18	25	45	mA

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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			°C/W
Power consumption(Buck-Boost)	symbol	Test condition		ТҮР		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=25m A		324	ļ				
ringing]	50Vrms,1REN		462	2				

> 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;

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> CATV feature:

> CATV ON/OFF control

- > The wavelength of light received by is nm $1210 \sim 1610$
- > The optical power received by is dbm-2 \sim -18
- > optical connector -5 \sim -15 FC/APC or SC/APC

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- > rf connector F head inch or metric system
- > The frequency range of is $47 \sim 1000 \text{ MHz}$
- > frequency response flatness dB ± 0.75 (-10dbm received light power), ± 1.5 (-15dbm received light power)
- > output reflection loss dB ≥ 16
- > Output rf impedance Ω 75 >
- > nominal output level dBuV 76±2 (-15dbm received optical power)

> C/N \ge 43 db \sim C/CSO \ge 62 db \sim C/CTB \ge 62 db (-9dbm received optical power, 59 channel pal-d analog signal +16 channel digital channel)

- > MER value $dB \ge 32-10$ dbm received optical power,80 digital signals
- > MER value dB \ge 30-15dbm received optical power,80 digital signals
- > operating temperature: -25 \sim +55
- > power consumption W 1.5

> 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.

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Application: FTTH FTTX

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