

# GL-GE8013U-MTK

## 1GE+3FE+1POTS+1USB +WIFI



### Product Overview

GE8004U-HZ 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 three 100Melectrical interfaces, one USB interface, one pots 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

1. Interface: voice port, network port 4- network port 1, USB port, power socket, power switching.
2. Indicator Light: WPS, WLAN, USB, TEL, network port 1-4, internet, Optical signal, PON registration, power supply.

### Specification

Description	Symbol	Test Condition	Min	Typ	Max	Unit
Ambient temperature, offset	Ta		-40		+85	°C
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
Ringling 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°C		1.5		W
Connect to ambient thermal resistance				29		°C/W
Power Consumption (Buck-Boost)	symbol	Test condition	TYP			Unit
Shutdown	PD	Switcher off	8			mW
Disconnect	PD		37			mW
Low Power Idle Mode		On-hook	52			mW
Idle		On-hook	98			mW
Active		Off-hook, 300Ω, ILA=25mA	324			mW
Ringling		50Vrms,1REN	462			mW

### 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.

### EPON Feature

1. Meets IEEE 802.3 EPON MAC standard
2. Supports a downlink rate of 1.25gbit /s and an uplink rate of 1.25gbit /s.
3. Supports DS/US FEC
4. Supports the downstream encryption and decryption function
5. Supports bandwidth allocation
6. Supports synchronous Ethernet
7. Supports RFC4837

### GPON Feature

1. Compliant with ITU G.984.x
2. Bandwidth US: 1.24416G/DS: 2.48832G
3. Supports 32 TCONT, 128 GEM
4. Supports AES, key switching
5. Supports upstream and downstream FEC
6. Supports DBRu
7. HW dying gasp

## **Business Performance**

1. Supports bridge mode and routing mode, wan three-tier routing NAT forwarding
2. Supports Tag/Untag Ethernet frames of 802.3 and 802.1q
3. Supports firewall, URL filter, firewall, MAC filter, port filter, protocol control
4. Supports port priority queues control
5. Supports IPV4 default routing, static routing, routing table view, IPV6 static routing, port or VLAN binding
6. Supports Select a device registration type, including loid, password, or SN
7. Supports multicast, DDNS, UPNP function, IGMP v1/v2/v3, IGMP/MLD snooping, IGMP/MLD PROXY.
8. Supports OAM and EELLDLP
9. Supports Automatically synchronize network time
10. Supports DMZ configuration, virtual host
11. Supports IEEE 802.3az energy-saving Ethernet capability, and supports 1000base-t, 100base-tx full duplex and 10base-full/half duplex modes.
12. Supports flow control based on entry. For businesses exceeding the flow, you can choose to drop packet or pause frame backpressure.
13. Support QoS function

## **VIOP Character**

1. Single channel option, 105V most battery design
2. Available in either PCM/SPI or ZSI
3. Compact structure, 84-pin 7\*7mm QFN components
4. VOIP processor and SOCS adopt the 5th generation line interface
5. The voice path SDK and vp-api-ii software can implement FXS functions
6. Energy saving switch control structure: up to 65vrms open circuit, up to 5REN load
7. Two-layer PCB design, complete bandwidth BOESCHT function
8. Analog telephone adapter (ATAs)

## **WIFI feature**

1. Technical norms: IEEE802.11b, IEEE802.11g, IEEE802.11n
2. Debug mode: 802.11b: DSSS/BPSK/QPSK/CCK
3. 802.11g: OFDM/DSSS/BPSK/QPSK/CCK
4. 802.11n: OFDM/DSSS/BPSK/QPSK/CCK
5. speed: 802.11b: compatibility 11,5.5,2,1 Mbps
6. 802.11g: compatibility 54,48,36,24,18,12,9,6 Mbps
7. 802.11n: compatibility 130,117,104,78,65,58,52,39,26,19.5,13,6.5Mbps
8. Channel: 1~11 (USA, Canada) 1~13 (Europe) 1~14 (Japan)
9. frequency domain: 2.4GHz-2.4835GHz
10. Transmission power: 11b: 17dBm +/- 1.5dBm
11. 11g: 14dBm +/- 1.5dBm
12. 11n: 11dBm +/- 1.5dBm
13. receive sensitivity: 11b: 83dBm
14. 11g: 70dBm
15. 11n: 64dBm

16. Security safe: 64/128-bits WEP WPA/WPA2 wait

17. The antenna number: 2\*3dBi Internal Antenna

### 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.

### Application

