

### RIKOM GT603G Series Dualband GPON HomeGateway

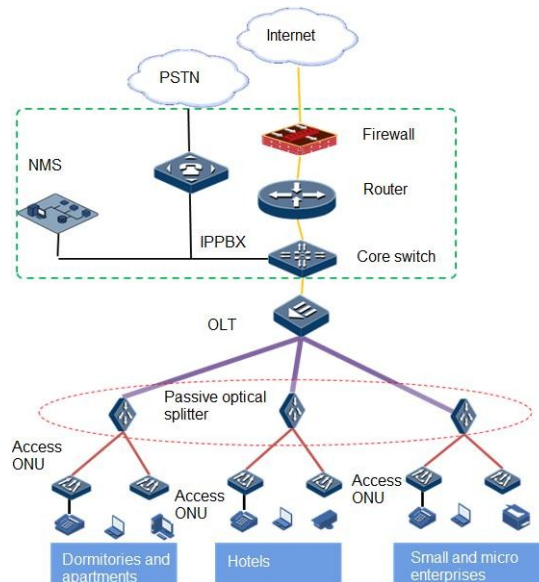
The RIKOM GT603G-US2/US2 is a GPON uplink dual-frequency HGU promoted by RIKOM. It offers 1 GPON uplink interface, 4 GE downlink interfaces, 2 voice interfaces, 1 USB2.0 interface, and 1 CATV RF interface and supports dual-frequency WLAN. By adopting the mainstream solution in the industry, the RIKOM GT603G-US2 features high CPU processing capability and data forwarding performance, complete QoS, multicast, maintenance and management, providing users with sound broadband and video access experiences.



RIKOM GT603G-US2/US2

### Application >>

Figure.1 GPON Comprehensive Access Solution



### FTTH Access

- Elegant appearance, low overall power consumption, and good heat dissipation
- Meeting the ITU-T G.984/G.988 standard
- High performance-price ratio, widely used in the FTTH networking
- Integrating GPON ONU, CATV, WLAN AP, IAD, LAN switch, and router into one, providing users with integrated access services of data, voice, and video
- Dual-frequency WLAN, providing users with better WLAN experience



Hardware features>>		
ONT Model	RIKOM GT603G-WS2	RIKOM GT603G-US2
Dimensions (mm) (L*W*H)	184*129*38	184*129*38
Power Consumption (W)	<18	<18
Weight (Kg)	<0.5	<0.5
PON Type	GPON	GPON
GE(10/100/1000 BT)	4	4
FE(10/100 BT)	-	-
POTS (FXS)	2	2
WLAN	802.11b/g/n/ac	802.11b/g/n/ac
CATV (RF)	-	1
Power supply	12VDC, 1.5A	12VDC, 1.5A
Operating temperature	5–45°C	
Operating humidity (RH)	10%–90% (non-condensing)	
Software features>>		
GPON Interface	<ul style="list-style-type: none"> <li>● Interface type (single-mode fiber): PON optical interface, SC/APC</li> <li>● Transmission rate: uplink 1.244 Gbit/s and downlink 2.488 Gbit/s</li> <li>● Central wavelength: Tx 1310 nm and Rx 1490 nm</li> <li>● Tx optical power: 0.5–5 dBm</li> <li>● Maximum Rx sensitivity: -28 dBm</li> <li>● Overload optical power: -8 dBm</li> </ul>	
GE Interface	<ul style="list-style-type: none"> <li>● 10/100/1000Base-T RJ-45 Ethernet interface</li> <li>● Ethernet interface auto-negotiation or manual configuration</li> <li>● MDI/MDIX auto-detection</li> </ul>	



<b>POTS Interface</b>	<ul style="list-style-type: none"> <li>● RJ-11 interface</li> <li>● DTMF dialup</li> <li>● Multiple coding schemes               <ul style="list-style-type: none"> <li>– G.711 (<math>\mu</math>-law and A-law)</li> <li>– G.729 (A and B)</li> <li>– G.723.1</li> </ul> </li> <li>● Echo cancellation, VAD and CNG</li> <li>● SIP (RFC3261), SDP (RFC2327), RTP (RFC3550/3551)</li> <li>● RFC2833 DTMP coding or SIP INFO method</li> <li>● Multiple classified services, such as CID, call waiting, call forwarding, call transfer, call switching, three-way calling, and classified ringing</li> <li>● G.711 faxes, modem, and TTY devices</li> <li>● T.38 fax</li> <li>● Configurable dial-up plan</li> <li>● Configurable rings for different countries</li> <li>● Configurations of DHCP clients and static IP addresses</li> </ul>
<b>WLAN Interface</b>	<ul style="list-style-type: none"> <li>● IEEE802.11 b/g/n and IEEE802.11ac</li> <li>● 2.4GHz&amp;5G dual-frequency WLAN</li> <li>● MIMO: 2x2</li> <li>● Multiple SSIDs</li> <li>● 64-bit and 128-bit WEP</li> <li>● WLAN protection access, such as WPA-PSK</li> <li>● Turning WLAN on/off</li> <li>● WPS</li> </ul>
<b>CATV Interface</b>	<ul style="list-style-type: none"> <li>● Optical connector type: SC/APC</li> <li>● CATV Rx wavelength: 1100–1600 nm</li> <li>● Input optical power: -18 to 2 dBm</li> <li>● RF output level: &gt; 82 dBuV</li> </ul>
<b>QoS/ACL</b>	<ul style="list-style-type: none"> <li>● QoS and ACL traffic classification actions</li> <li>● Priority scheduling, such as SP and WFQ queue scheduling mode</li> <li>● Traffic classification based on source/destination MAC address, source/destination IP address, protocol (such as TCP, UDP, and RTP), source/destination interface ID, Flow Label (IPv6 data flow only)</li> <li>● Bandwidth guarantee and restriction based on traffic classification results</li> <li>● WMM</li> </ul>
<b>Maintenance and management</b>	<ul style="list-style-type: none"> <li>● OLT, Web, TR069, and CLI management</li> <li>● Interface Up/Down alarms and Dying Gasp</li> <li>● Information query of optical modules</li> <li>● Query of memory and CPU utilization rate</li> </ul>



<b>Multicast</b>	<ul style="list-style-type: none"><li>● IGMP v1, v2, and v3</li><li>● IGMP Proxy/MLD Snooping</li><li>● Multicast transparent transmission</li></ul>
<b>L3 service</b>	<ul style="list-style-type: none"><li>● DHCP server and DHCP client</li><li>● PPPoE client</li><li>● Static configuration of IPv6 addresses</li><li>● Data forwarding based on interface binding and VLAN binding</li></ul>

<b>Ordering Information &gt;&gt;</b>	
<b>RIKOM GT603G-WS2</b>	GPON uplink(SC/APC), 4 GE, 2 FXS, 1 USB 2.0, Dual band 802.11b/g/n/ac (MIMO 2*2) WLAN, external power supply adapter
<b>RIKOM GT603G-US2</b>	GPON uplink(SC/APC), 4 GE, 2 FXS, 1 USB 2.0, Dual band 802.11b/g/n/ac (MIMO 2*2) WLAN, external power supply adapter