GPON VoIP Gateway AX3600

GPON **|** 2.5GE & GE **|** 802.11ax **|** VoIP **|** TR-069

GRG-4203u

GRG-4203u is the next Wi-Fi 6 generation GPON VoIP Gateway which is designed to meet the end-user requirements for advanced triple-play deployments.

With an embedded GPON port on the WAN side, no external ONT is needed so as to provide FTTH service. On the LAN side, it provides one 2.5Gigabit Ethernet port, four Gigabit Ethernet ports, one FXS port, and one USB 3.0 Host interface.

The two 802.11ax wireless bands: 2.4GHz - 4T4R, (backward compatibility with 802.11g/b/n) and 5GHz - 4T4R, (backward compatibility with 802.11a/ac) are separated into two dedicated Wi-Fi networks, supporting more end-user devices while reducing signal interference. GRG-4203u also offers VoIP functions to integrate telephone service and remote management utilities (e.g. TR-069) for network provision and maintenance.

KEY FEATURES

- **2.5 Giga Ethernet:** Capable of providing high-speed (2.5Giga) connectivity.
- **MU-MIMO:** Supports both up-link and down-link, allowing efficient data transmission for more devices at the same time.
- Supports **Voice over Internet Protocol** (VoIP) as a flexible and affordable solution for voice services.
- **802.11ax (1024 QAM):** Supports high definition offering high throughput capability and compatible with 11a/b/g/n/ac.

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SPECIFICATIONS	
Hardware	▪ 1x GPON Bi-directional Optical (1310nm/1490nm) ▪ 1x FXS (VoIP) ▪ 4x GE LAN ▪ 1x 2.5GE LAN ▪ 1x USB 3.0 ▪ 1x Reset button ▪ 1x WPS button ▪ 1x Wi-Fi On/Off button ▪ 4x Internal Antenna ▪ 1x Power switch
GPON	▪ SC/APC,1244Mbps/2488Mbps,1310nm/1490nm ▪ GPON ITU-T G.984.1, G.984.2, G.984.3, G.984.4 ▪ Fully ITU-T G.984 compliant framing ▪ Single / Multiple T-CONTs ▪ Single / Multiple GEM ports ▪ Flexible mapping between GEM ports and T-CONT ▪ AES-128 Decryption with key generation and switching ▪ FEC (Forward Error Correction) ▪ DBA reporting in status indications in the PLOu, and by piggyback reports in the DBRu (mode 0) ▪ 802.1p service mapping profile on U/S ▪ Mapping of GEM port into a T-CONT with priority queues based scheduling
2.5Gigabit Ethernet	▪ IEEE 802.3bz ▪ 2.5G BASE-T, auto-sense ▪ Supports MDI/MDX
Ethernet	▪ IEEE 802.3, IEEE 802.3u IEEE 802.3ab ▪ 10/100 /1000 BASE-T, auto-sense ▪ Supports MDI/MDX
Wireless	▪ IEEE 802.11ax, 2.4GHz, 4T4R, 20/40 MHz Backward compatible with 802.11n/g/b ▪ IEEE 802.11ax,5GHz, 4T4R, 20/40/80 MHz Backward compatible with 802.11ac/n/a U-NII-1 (5150～5250 MHz) U-NII-2a (5250～5350 MHz) optional U-NII-2c/2e (5470～5725 MHz) optional ▪ Modulation: up to 1024-QAM, rate 3/4 and 5/6 ▪ 80 MHz channel bandwidth ▪ WPA/WPA-PSK, WPA2/WPA2-PSK with TKIP & AES Security Type ▪ Multiple SSID ▪ MAC Address Filtering

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SPECIFICATIONS	
Networking Protocols	▪ PPPoE pass-through, Multiple PPPoE sessions on single WAN interface ▪ Transparent bridging between all LAN and WAN interfaces ▪ 8021p/8021q VLAN support ▪ Spanning Tree Algorithm ▪ IGMP Proxy V1/V2/V3 ▪ Static route, RIP v1/v2, ARP, RARP, SNTP ▪ DHCP Server/Client ▪ DNS Proxy/Relay, Dynamic DNS ▪ UPnP ▪ IPv6 subset ▪ Firewall/Filtering ▪ MAC Filtering ▪ Port Forwarding (Virtual Server) ▪ TCP/IP/Port/interface filtering rules Support both incoming and outgoing filtering ▪ NAT/NAPT ▪ DMZ host ▪ TR-069/TR-181/TR-143, SNMP, Telnet, SSH, Web-based management, Configuration backup and restoration ▪ Software upgrade via HTTP, TFTP server ▪ Static route, RIP and RIPv2, NAT, DDNS, ARP
VoIP	▪ SIP: RFC3261 ▪ Codec: G711, G722, G723, G726, G729ab, Ilbc ▪ RTP: RFC 1889 ▪ SDP: RFC 2327 ▪ Caller ID: ETSI based ▪ Echo cancellation: G168 ▪ Silence suppression ▪ Jitter Buffer: 20ms to 600ms ▪ Voice Active Detection(VAD) ▪ Comfort Noise Generator(CNG) ▪ Fax/T.38
ENVIRONMENT	
Operating Temperature	0°C ~40°C (32°F ~104°F)
Operating Humidity	10%~95% non-condensing
Storage Temperature	-20°C ~70°C (-4°F ~158°F)
Storage Humidity	10%~95% non-condensing

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Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.