

GPON VolP Gateway

GPON | 5T5R 11ax/ac + 4T4R 11ax/n | VoIP | TR-069

GRG-4280us







GRG-4280us 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, no external ONT is needed as to provide FTTH service. On the LAN side, it provides four Gigabit Ethernet ports, one FXS port, and one USB 2.0 Host interface.

The two 802.11ax wireless bands: 2.4GHz - 4T4R, (backward compatibility with 802.11g/b/n) and 5GHz - 5T5R, (backward compatibility with 802.11a/ac) are separated in two dedicated Wi-Fi networks, supporting more end-user devices while reducing signal interference. GRG-4280us also offers VoIP functions so as to integrate telephone service and remote management utilities (e.g. TR-069) for network provision and maintenance.

KEY FEATURES

- GPON port, no external ONT is needed as to provide FTTH service.
- MU-MIMO: Supports both up-link and down-link, allowing efficient data transmission for more devices at the same time.
- VoIP (SIP): Voice over Internet Protocol provisioning communications services rather than via PSTN.
- 802.11ax (1024 QAM): Supports high definition offering high throughput capability and compatible with 11a/b/g/n/ac.
- EasyMesh: Multi-Access Point specification for creating Wi-Fi meshes from products by different vendors.

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SPECIFICATIONS

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Hardware	 GPON1 X 1 Bi-directional Optical (1310nm/1490nm) RJ-11 X 1 for FXS RJ-45 X 4 for GELAN USB 2.0 x 1 Reset button X 1 WPS button X 1 Wi-Fi On/Off button X 1 Internal Antenna X 5 Power switch X 1
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
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, 40 MHz Backward compatible with 802.11n/g/b IEEE 802.11ax,5GHz, 5T5R, 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 5/6 160 MHz channel bandwidth WPAWPA-PSK, WPA2/WPA2-PSK with TKIP & AES Security Type Multiple SSID MAC Address Filtering
USB	 Samba DLNA 3G support



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Networking Protocols	 PPPoE pass-through, Multiple PPPoE sessions on single WAN interface Transparent bridging between all LAN 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) Domain Blocking URI/URL Blocking Port Scan Detection and Protection TCP/IP/Port/interface filtering rules Support both incoming and outgoing filtering NAT/NAPT DMZ host VPN Pass Through (PPTP, L2TP, IPSec) ACL (TELNET, FTP, TFTP, HTTP, SNMP, PING) 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 PPTP, L2TP, IPSec
VolP	 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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