COMTREND

Wireless GPON Gateway
GRG-4260us
4 Ethernet Ports | 1 PON | VoIP | 802.11n | 802.11ac

The GRG-4260us is an integrated GPON ONT Gateway with an embedded GPON port in the WAN side. In the LAN side it provides 4 Gigabit Ethernet ports, 2 FXS ports, 1 USB 2.0 Host interface and a dual concurrent band IEEE 802.11 series Wi-Fi (11n/ac). The Wi-Fi interface operates in 802.11n 2T2R at 2.4GHz (300 Mbit/s) which is backward compatible with 802.11g/b and also supports high performance 802.11ac with 3T3R design at 5GHz (1300 Mbit/s).

Compatible with WPS 2.0, it provides an easy paring method in order to link Personal Computers, Smartphones, Tablets, etc. by just pushing a button.

GRG-4260us offers VoIP functions to integrate the telephone service, and remote management utilities (such as TR-069) for network provision and maintenance.

FEATURES

. UPnP, IPv6 compliant

. Supports TR-069/TR-098/TR-181i2

. Configuration backup and restoration

. Web-based management (HTTPS/HTTP)

. Supports remote administration, automatic firmware upgrade and configuration

. Dual concurrent band 802.11n/ac (802.11n in 2.4GHz and 802.11ac in 5GHz). Backward compatible with 802.11g/b

. WPA and 802.1x/ WPS 2.0/ Radius Client

. NAT/PAT

. IGMP Proxy/ Fast Leave/ Snooping/ Proxy

. DHCP Server/Client

. Embedded SNMP agent

. IP/MAC address filtering

. Static route/ RIP/ RIP v2 routing functions

. DNS Proxy/Relay

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4 Ethernet Ports | 1 PON | VoIP | 802.11n | 802.11ac

SPECIFICATIONS

Hardware
· GPON X 1 Bi-directional Optical (1310nm/1490nm)
· RJ-45 X 4 for LAN, (10/100/1000 Base T)
· RJ-11 X 2 for FXS
· USB 2.0 host X 1
· WPS /Wi-Fi On/Off button X 2 (1 button per radio)
· Power switch X 1 & Reset Button X 1
· 128MB Flash. 128MB DDR

WAN
· SC/APC,1244Mbps/2488Mbps,1310nm/1490nm
· GPON ITU-T G.984.x

LAN
· IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
· Support MDI/MDI-X
· 10/100 /1000 BaseT Auto-sense

Wireless 802.11n
· IEEE802.11b/g/n 2T2R (up to 300Mbps data rate)
· 64, 128-bit Wired Equivalent Privacy (WEP) Data Encryption
· 11 Channels (US, Canada)/ 13 Channels (Europe)/ 14 Channels (Japan)
· MAC address filtering, WEP, WPA, IEEE 802.1x
· 10,25,50,100mW@22MHz channel bandwidth output power level can be selected according to the environment

Wireless 802.11ac
· IEEE802.11ac 3T3R (up to 1300Mbps data rate)
· Modulation: up to 256-QAM, rate 3/4 and 5/6
· 80 MHz channel bandwidth

PON
· GPON ITU-TG.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

Application Layer Gateway (ALG)
· SIP, IPSec, H.323, Yahoo messenger, ICQ, RealPlayer, Net2Phone, NetMeeting, MSN, X-box, Microsoft DirectX games etc.

Voice Functions
· SIP: RFC 3261
· MGCP: RFC 3435
· Codec: G.711, G.723.1, G.726, G.729ab
· RTP: RFC 1889
· SDP: RFC 2327
· Caller ID: ETSI based
· Life line / Emergency call
· Echo cancellation: G.168
· Silence suppression

Networking Protocols
· Multiple PPPoE sessions on single WAN interface
· PPPoE filtering of non-PPPoE packets between WAN and LAN
· Transparent bridging between all LAN and WAN interfaces
· 802.1p/802.1q VLAN support
· Spanning Tree Algorithm
· IGMP Proxy V1/V2/V3, IGMP Snooping V1/V2/V3, Fast leave
· Static route, RIP v1/v2, ARP, RARP, SNTP
· DHCP Server/Client/Relay
· DNS Proxy/Relay, Dynamic DNS
· Internet Printing Protocol
· UPnP
· IPv6 subset

Firewall/Filtering
· Stateful Packet Inspection Firewall
· Stateless Packet Filter
· Day-time Parental Control
· URI/URL filtering
· Denial of Service (DOS): ARP attacks, Ping attacks, Ping of Death, LAND,SYNC, Smurf, Unreachable, Teardrop
· Port Scan Detection and Protection
· TCP/IP/Port/interface filtering rules support both incoming and outgoing filtering

NAT/NAPT
· Support One to One, Many to One, Many to Many (Overload), Many to Many (No Overload) NAT
· NAT Loopback
· Port Triggering
· Port Forwarding (Virtual Server)
· Symmetric port-overloading NAT, Full-Cone NAT
· DMZ host
· VPN Pass Through (PPTP, L2TP, IPSec)

Management
· TR-069/TR-181/TR-142/TR-156, SNMP, SSH, Telnet, Web-based management, Configuration backup and restoration
· Software upgrade via HTTP, TFTP server, or FTP server

Routing Functions
· Static route, RIP, and RIPv2, NAT/PAT, DHCP Server / DHCP Relay, DNS Proxy, ARP

Application Pass Through
· PPTP, L2TP, IPSec, SIP, Yahoo messenger, ICQ, RealPlayer, NetMeeting, MSN, X-box, etc.

Environment Condition
· Operating temperature: 0 ~ 45 degrees Celsius
· Relative humidity: 5 ~ 95% (non-condensing)

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