

# GPON VoIP Gateway AX1800

PON | 4 GE LAN | 802.11ax@2.4GHz&5GHz | VoIP | USB

## GRG-4295u



**Comtrend's GRG-4295u** is a highly integrated GPON Gateway capable of providing strong and stable wireless connectivity with its industry leading Wi-Fi 6 configuration, Dual-Band 2T2R + 2T2R. Instead of letting network tasks compete with each other for resources, 802.11ax (Wi-Fi 6) focuses on scheduling access to guarantee performance of each end device.

With 1\*USB3.0 host port the GPON Gateway provides high speed access to USB devices such as printer server, 3G dongle, HDD, and has future DLNA connectivity.

### KEY FEATURES

- **Raw Speed 40% Faster:** Provides blazing fast speed to the home services.
- **Wi-Fi 6 (802.11ax):** Dual Band 2T2R + 2T2R, industry leading Wi-Fi configuration.
- **BSS Coloring:** Capable of marking frames from neighbor's networks, so that your router can ignore them and only focus on your network tasks. Which means your router became much more efficient by getting rid of extra work.
- **Dual-Core Processor for Faster Processing:** The router has a built-in dual core processor. The two cores enable parallel processing and increase speeds when managing multiple instructions from your devices.
- **OFDMA and MU-MIMO:** Supports both up-link and down-link, allows efficient data transmission for more devices at the same time.
- **Higher Spectral Efficiency:** 25% Increased transmitted efficiency featured by 1024-QAM.
- **Remote Management:** TR-069 / TR-181 standard data model for ISP remote control.

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## SPECIFICATIONS

HARDWARE	
Flash	128M Byte
RAM	DDR3: 256M Byte
Interfaces	1 x SC/APC GPON Port 4 x 10/100/1000Mbps LAN Ports 1 x FXS Port 1 x USB Port (3.0)
LED Indicators	Power, Internet, WAN, ETH1, ETH2, ETH3, 2.4G Wi-Fi, 5G Wi-Fi, Phone 1, USB
Antenna	Dual-Band Antenna x 4, 5dBi fixed antennas
Buttons	Power ON/OFF Button, WPS/WiFi Button, Reset Button
Dimensions (W X D X H)	232 x 124 x 31mm
Power Supply	DC 12V 1.5A
General	
Data Rates	Upstream:1.25Gbps, Downstream:2.5Gbps
Wireless Standards	IEEE 802.11ax/ac/n/a 5 GHz IEEE 802.11ax/n/b/g 2.4 GHz
Signal Rate	5 GHz: 1201 Mbps(802.11ax), 2.4 GHz: 574 Mbps(802.11ax)
Operation Frequency	2.4GHz & 5GHz
Wireless Security	WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
VoIP Standards	SIP (RFC3261), ITU-T G.729/G.722/G.711a/G.711
Management Function	TR-069 (TR-181), HTTP, HTTPS, TELNET, SSH
Certificate	CE, RoHS
ADVANCED FEATURES	
Software features	WAN Type: Dynamic IP/Static IP/PPPoE DHCP: Server, Client, DHCP Client List, Address Reservation Quality of Service: WMM, Bandwidth Control Port Forwarding: Virtual Server, Port Triggering, UPnP, DMZ VLAN: 802.1Q tag VLAN, VLAN transparent mode/VLAN translation mode/VLAN trunk mode Firewall Security: DoS, SPI Firewall IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding Call waiting, Call forwarding, Call block, 3-way conference call, etc. Management: Access Control, Local Management, Remote Management Internet Protocol: IPv4,IPv6
ENVIRONMENT	
Temperature	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F)
Humidity (Non-condensing)	Relative Humidity: 10%~90% Storage Humidity: 5%~95%

# COMTREND

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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.