User Manual

VG-8032u | Wi-Fi Router

VG-8032u Device Image

Contents

COMTREND

Chapter 1 Safety Instructions

⚠ IMPORTANT Safety Instructions

- Read all safety precautions carefully before using the device.
- Use only the accessories provided in the package, such as the power adapter. Do not splice or extend the power cable; as this may cause the device to malfunction.
- Ensure the power supply voltage matches the device's input requirements (voltage fluctuation range should be less than 10%).
- Keep the power plug clean and dry. Disconnect all cables during a thunderstorm to prevent damage. Turn off and unplug the device when not in use for an extended period.
- Do not attempt to open the device casing. It is dangerous to do so when the device is powered on.
- Avoid looking directly into the optical interface to avoid eye injury. If the device emits abnormal sounds, smoke, or odours, stop using it immediately and contact your service provider for maintenance.
- Ensure proper ventilation. Place it away from direct sunlight, heat sources, moisture, or strong electromagnetic fields. Keep the device dry and well-ventilated. Avoid spilling liquids on the device and do not place objects on top of it to prevent deformation or damage.
- Before cleaning, turn off the device and unplug all cables. Use only a soft, dry cloth. Do not use any liquids or sprays.
- Dispose of the device properly according to local regulations for electronic waste and recycling.
- The maximum permissible exposure (MPE) level is calculated at a minimum distance of 20 cm between the device and the human body. Maintain this distance to comply with RF exposure requirements.
- Disconnect the power line from the device before servicing.
- For indoor use only.
- Do NOT use near water
- Keep away from fire.
- 5GHz band restrictions: According to Article 10(10) of Directive 2014/53/EU, this device is subject to restrictions in certain countries, Belgium (BE), Bulgaria (BG), the Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), the Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE), Turkey (TR), Norway (NO), Switzerland (CH), Iceland (IS), and Liechtenstein (LI). WLAN operation in the 5150–5350 MHz range is limited to indoor use only.

CAUTION:

- Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.
- Do not stack equipment or place equipment in tight spaces, in drawers, or on carpets. Be sure that your equipment is surrounded by at least 2 inches of air space.
- To prevent interference with cordless phones, ensure that the gateway is at least 5 feet (1.5m) from the cordless phone base station.
- If you experience trouble with this equipment, disconnect it from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

Chapter 2 Accessibility Statement

Comtrend is committed to making our user menu accessible to everyone, including people with disabilities. We strive to provide an inclusive and user-friendly experience for all.

Accessibility Standards
Our user menu has been designed with accessibility in mind and aims to comply with the Web Content Accessibility Guidelines (WCAG) 2.1.able level to ensure that the user manual is accessible in digital formats (PDF/HTML) and readable by screen readers (e.g. Narrator, NVDA).

Accessibility Features
To enhance usability, we have implemented the following accessibility features:
- High-contrast mode compatibility
- Screen reader-friendly labels and descriptions
- Resizable text without loss of functionality

Ongoing Improvements
We regularly review and update our accessibility practices to improve usability for all users. If you encounter difficulties using our user menu, please let us know so we can address them.

Contact Us
If you need help or have feedback about the accessibility of our user menu, please contact us at:
info@comtrend.com

Chapter 3 Energy Consumption and Power Management

Energy Consumption
This device is designed to minimize energy use in compliance with European Union eco-design standards. Below is the power consumption table:

Mode	Power Consumption (Watts)	Transition Time (Minutes)
Off Mode	N/A	N/A
Standby Mode	N/A	N/A
Networked Standby	≤ 4.9 W (HiNA)*	Configurable (default: 20 minutes)

The power consumption table below shows the device in networked standby mode with all wired network ports connected and all wireless network ports activated.

Mode	Power Consumption (Watts)	Transition Time (Minutes)
Networked Standby	≤ 5.3 W (HiNA)*	Configurable (default: 20 minutes)

*HiNA: High Network Availability equipment, such as routers.

Automatic Power Management

This device automatically transitions to low-power modes:

- **Networked Standby Mode**: After 20 minutes of inactivity, the device will reduce power usage while maintaining quick reactivation capability.
- **How to Adjust**: Go to *Settings* > *Advance* > *Power Management* > *Idle Time* and select your preferred duration (5 to 20 minutes). Then click the **Save & Apply** button to implement your changes.

Customizing Power Management

To meet your specific needs, the power management features can be customized:

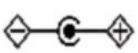
- **To Disable Power Management**:
  1. Go to *Settings* >*Advance* > *Power Management*.
  2. Here you can Enable or Disable Power Saving.

Device-Specific Recommendations

1. **Avoid extended idle periods**: If you won't use the device for a long time, power it off instead of leaving it in standby mode.
2. **Optimize settings for usage patterns**: Use shorter standby timers for devices with sporadic usage.
3. **Update firmware regularly**: Ensure energy-saving features are optimized with the latest updates.

Chapter 4 Compliance and Certification

- Power measurements were conducted using protocols specified in Annex IV of Commission Regulation (EU) 2023/826.
- This device meets the power limits and functional requirements outlined in the regulation.

Power Specifications: - Input : 12Vdc, 1.5A 

Certification

This device meets the following CE Standards:

EN 55032 / EN 55035
EN 301 489-1 / -17
EN 300 386
EN 300 328
EN 301 893
EN 62311
EN 62368-1(include ErP)

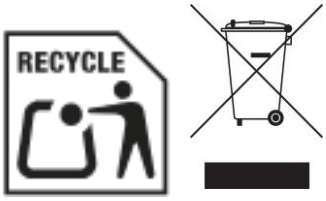
Chapter 5 Copyright

NOTE: This document is subject to change without notice.

Chapter 6 Environment

When the equipment has reached the end of its useful life, it must be taken to a recycling center and processed separate from domestic waste

The cardboard box, the plastic contained in the packaging, and the parts that make up this router can be recycled in accordance with regionally established regulations. Never dispose of this electronic equipment along with your household waste; you may be subject to penalties or sanctions under the law. Instead, please be responsible and ask for disposal instructions from your local government.



Chapter 7 Product Introduction

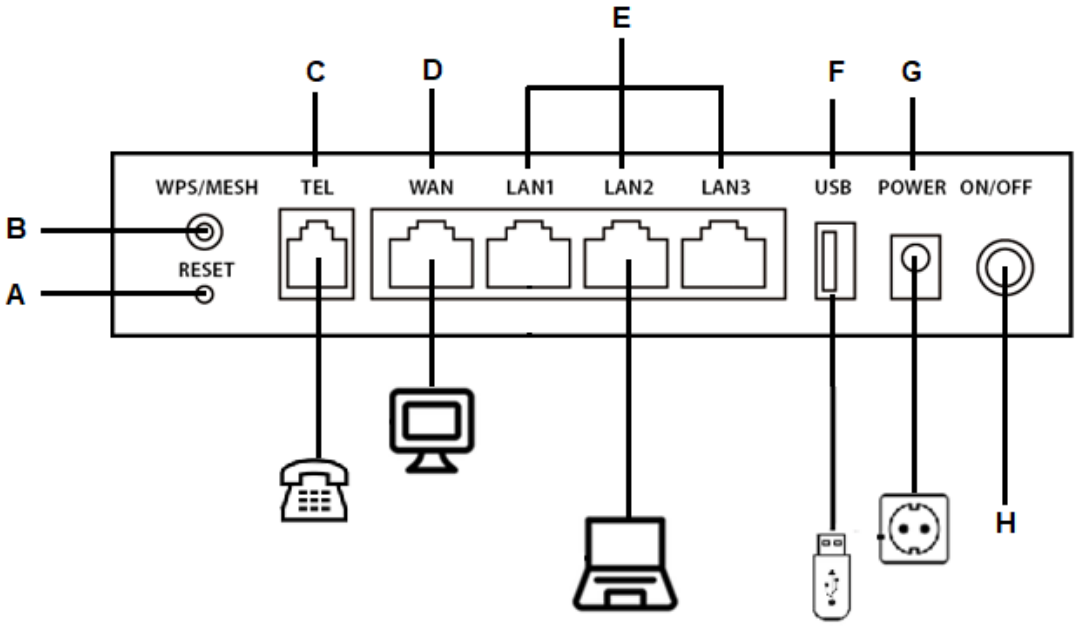
VG-8032u is equipped with a dual core processor, operates at a main frequency of 1.0GHz and provides superior processing speed and stable operation.

2.4G and 5G support the new generation Wi-Fi 6 (11ax) standard, having stronger anti-interference capability and faster transmission rate. The dual frequency concurrent wireless rate is up to 3000Mbps. Furthermore, VG-8032u provides one WAN + three LAN full gigabit network ports, convenient for home networking.

Chapter 8 Product Connection

Back Panel

The connections in the illustration are explained alphabetically from the left to the right.



A. Reset Button

Restore the default Items of the device by pressing the Reset button for at least 10 seconds. After the device has rebooted successfully, the front panel should display as expected (see Chapter 9 LED Front Panel Indicators for details).

B. WPS/MESH Button

Start the WPS function by pressing the button for zero to two seconds or start the MESH function by pressing the button for more than five seconds.

C. Phone Port

Use an RJ11 cable to connect an analog telephone.

D. Gigabit ETH WAN Port

Use a 1000BASE-T RJ-45 or 10/100BASE-T RJ-45 cable to connect to the Internet. These ports are auto-sensing MDI/MDI-X, so either a straight-through or crossover cable can be used.

E. Three GE LAN Ports

Use a 1000-BASE-T RJ-45 cable to connect to a network device to a Gigabit LAN, or 10/100BASE-T RJ-45 cable for standard network usage. These ports are auto-sensing MDI/X; so either straight-through or crossover cable can be used.

F. USB Host Port (Type A)

The USB port supports storage devices. If a storage device is connected to the USB host port, it can be used to stream the DLNA service. Support for other devices may be added in future firmware upgrades.

G. Power supply port: Connect the power adapter to the power port. Attach the power adapter to a wall outlet or other AC source.

H. Power ON/OFF Button: If the Power LED displays as expected then the device is ready for setup (see section Chapter 9 LED Front Panel Indicators for details).

Caution 1: If the device fails to power up, or it malfunctions, first verify that the power cord is connected securely. If the problem persists, contact technical support.

Caution 2: Before servicing or disassembling this equipment, disconnect all power cords and telephone lines from their outlets.

Chapter 9 LED Front Panel Indicators

The front panel LED indicators are explained in the table below.

Front Panel

LED	Color	Status	Description
POWER	GREEN	Solid Light	Power on
	GREEN	Blinking	POST (Power On Self-Test) failure (not bootable) or Device malfunction. A malfunction is any error of internal sequence.
	GREEN	Light off	Power off
LAN	GREEN	Solid Light	Powered device connected to LAN port
	GREEN	Blinking	LAN activity present
	GREEN	Light off	No Activity
WAN	GREEN	Solid Light	Device has a successful Ethernet connection on the WAN port
	GREEN	Blinking	Data transmission in process
	GREEN	Light off	The device does NOT have a successful Ethernet connection on the WAN port
NET	GREEN	Solid Light	The WAN connection is online
	GREEN	Blinking	Data transmission
	GREEN	Light off	There is no internet connection/Device powered OFF
	RED	Solid Light	The WAN connection is dialing or has failed to get online. Device attempted to become IP connected and failed (no DHCP response, no PPPoE response, PPP authentication failed, no IP address from IPCP, etc)
2.4G	GREEN	Solid Light	(2.4G) Wi-Fi enabled
	GREEN	Blinking	(2.4G) Wi-Fi is transmitting/receiving
	GREEN	Light off	(2.4G) Wi-Fi disabled
5G	GREEN	Solid Light	(5G) Wi-Fi enabled
	GREEN	Blinking	(5G) Wi-Fi is transmitting/receiving
	GREEN	Light off	(5G) Wi-Fi disabled
TEL	GREEN	On	A SIP account is registered
	GREEN	Blinking	Ongoing call/Off the hook
	GREEN	Off	SIP account not registered/SIP account not configured

Chapter 10 Specifications

The specifications are explained in the table below.

Main Chipset	▪ Flash Memory: 128MB ▪ SDRAM: 256MB
Interface	▪ Ethernet LAN: 3x RJ-45 Port (Yellow color, unshielded) ▪ 10/100/1000Mbps ▪ WAN: 1x RJ-45 GE WAN ▪ VoIP: 1x RJ-11 FXS ▪ USB: 1x USB2.0 ▪ WLAN: 2.4G 11ax 2T2R+5G 11ax 2T3R, 5x internal antennas ▪ Buttons: 1x Reset/WPS button ▪ MESH: 1x MESH button ▪ Power Jack: DC power jack ▪ Switch: ON/OFF switch
Power	▪ Adaptor Input: 100 ~ 240 VAC(±10%), 50/60Hz ▪ Adaptor Output: Single-output-DC 12V, 1.5A
ENVIRONMENT	
Physical & Environmental	▪ Operating Temperature: 0 ºC ~40 ºC (32 ºF ~104 ºF); ▪ Storage Temperature: -20 ºC ~70 ºC (-4 ºF ~158 ºF) ▪ Operating Humidity: 0 to 95% RH ▪ Storage Humidity: 0 to 95% RH
Green Product Requirement	▪ CE & RoHS

NOTE: Specifications are subject to change without notice.