

# Wi-Fi 7 Ethernet Gateway

802.11be | 4T5R-Dual-Band | BE7200 | 10 Gigabit Ethernet | TR-069

## VG-8031u



Introducing the **VG-8031u**, a state of the art Wi-Fi 7 Gateway designed to transform your home or business network. Built on the advanced latest Airoha platform, it supports dual-band 802.11be, providing lightning-fast, reliable connectivity. With 10 Gigabit Ethernet WAN and LAN ports, 4 x Gigabit LAN ports, USB, and dual FxS ports, this gateway is the ultimate solution for high-performance networking. Whether you're streaming, gaming, or managing a smart home, the VG-8031u delivers unmatched speed, coverage, and versatility, ensuring your network is always a step ahead.

### KEY FEATURES

- **Cutting-Edge Dual-band Wi-Fi 7:** Experience blazing-fast wireless connectivity with advanced 4T5R Dual-band Wi-Fi 7 technology, providing exceptional coverage and performance.
- **4096-QAM (4K-QAM):** Enables each symbol to carry 12 bits rather than 10 bits, resulting in 20% higher theoretical transmission rates than Wi-Fi 6's 1024-QAM.
- **320MHz Bandwidth:** Ultra-fast, high-capacity data transmission for seamless connectivity
- **Ultra-Fast 10GE Connectivity:** Enjoy lightning-fast internet speeds with 10 Gigabit Ethernet WAN and LAN ports for seamless online experiences.
- **Multi-Link Operation:** Enhanced performance by utilizing multiple links simultaneously for reduced latency.
- **Multiple Resource Units:** Efficiently allocates bandwidth to boost multi-device performance.

# VG-8031U

802.11be | 4T5R-Dual-Band | BE7200 | 10 Gigabit Ethernet | TR-069

## SPECIFICATIONS

### HARDWARE SPECIFICATIONS

<b>Main CPU</b>	AN7581PT
<b>Wi-Fi Chipset</b>	Filologic 660
<b>Flash</b>	512MB
<b>RAM</b>	DDR4 512MB 16bit DDR4
<b>Interface</b>	1 x 10GE WAN Port + 1 x 10GE LAN Port + 4 x GE LAN Port, 1 x USB 3.0, 2 x FxS
<b>Antenna</b>	9 internal antennas
<b>Button</b>	1 x RESET. 1 x WPS/MESH. 1 x Wi-Fi/LED
<b>LED</b>	8LED, POWER、WAN、NET、2.4G、5G、TEL1、TEL2、MESH
<b>Power Requirement</b>	DC: 12V / 3A

### RF SPECIFICATIONS

<b>Wireless Standard</b>	IEEE 802.11be/ax/b/g/n @2.4GHz IEEE 802.11be/ax/ac/n/g/b/a @5GHz
<b>Frequency Band</b>	2.4GHz (4x4), 5GHz (4x5)

### ADVANCED FEATURES

<b>Wi-Fi Features</b>	320MHz bandwidth, 4096-QAM, MLO, MRU
<b>Internet Protocol</b>	IPv4, IPv6
<b>Wi-Fi Security</b>	WPA-PSK, WPA2-PSK, WPA-PSK/ WPA2-PSK, WEP, WPA3-SAE, WPA2-PSK/WPA3-SAE
<b>Management Function</b>	Local GUI Management, TR-069 Remote Management
<b>Firmware Base</b>	OpenWRT

### ENVIRONMENT & PHYSICAL

<b>Certification</b>	CE, RoHS
<b>Temperature Range</b>	Operation: 0 to 40°C. Storage: -40 to 70°C
<b>Humidity (non-condensing)</b>	Relative Humidity: 5% to 90%. Storage Humidity: 5% to 95%.



**Taiwan:**  
3F-1, No.10, Lane 609, Chongxin Road, Section 5,  
Sanzhong Dist, New Taipei City 24159, Taiwan  
Tel: 886-2-2999-8261

**India:**  
446 Sector 8, IMT Manesar, Gurugram,  
Haryana 122051, India  
E-mail: [India\\_admin@comtrend.com](mailto:India_admin@comtrend.com)

**USA & Canada:**  
530 Technology Dr. Suite 100 Irvine,  
CA 92618 USA  
Tel: (949)-753-964

**Spain:**  
[comercial@comtrend.com](mailto:comercial@comtrend.com)

**Czech Republic:**  
TOKOVO Jankovcova 1518/2, 170 00, Prague 7,  
Czech Republic  
Tel: 420-266-782040

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change.