

PNET-GPAX3KG1V

AX3000 Wireless Gigabit, VoIP GPON Router



802.11ax



Gigabit Ports



MU-MIMO



Easy Mesh

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More stable, Faster, Stronger, Broader, WIFI

Introducing 802.11AX WiFi

Even Faster Speed & Higher Efficiency

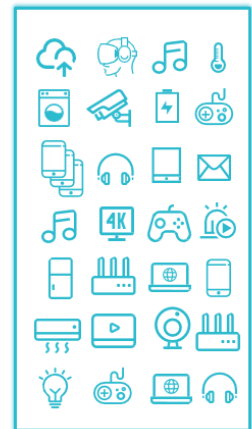
802.11ax, also referred as Wi-Fi 6, was created to improve network efficiency and provide even faster network speed. Instead of letting network tasks compete each other for resources, 802.11ax WiFi focus on scheduling access to guarantee performance of each end device.



802.11n



802.11ac



802.11ax

Raw Speed 40% Faster

AX 2.4GHz

574Mbps

AX 5GHz

2402Mbps

Blazing Fast Wireless speed.

802.11AX comes with 1024QAM and long OFDM Symbol that allow the router to transmit even more data. Compare with 256QAM that used in 802.11ac, raw speeds increased by 25%. GP854GVR-V3 is able to deliver blazing speed up to 3000Mbps.

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Wi-Fi 6's BSS Color

BSS Color marks frames from neighboring networks, and therefore your Mesh can ignore them and only focus on your network tasks. Without extra work, your Mesh became much more efficient.

Beamforming

Focus wireless signal strength towards clients to expand Wi-Fi range.

1024-QAM, 10bits / Symbol

With the latest 1024-QAM, each symbol carries 10 bits, improving raw speeds by 25% compared to 802.11ac 256-QAM.

Greatly Reduce Lag

Providing smaller (but dedicated) sub-channels for multiple users simultaneously, the OFDMA mechanism can improve the average transmission rate per user. It is greatly reduced lag and queue.

Connect to More Devices Simultaneously

Wi-Fi 6's MU-MIMO works with both uploads and downloads. This means that there's more than enough band width for everyone whatever you're doing online.

Reduce Power Consumption

Target Wake Time (TWT) increases the sleep time of the STA to reduce power consumption

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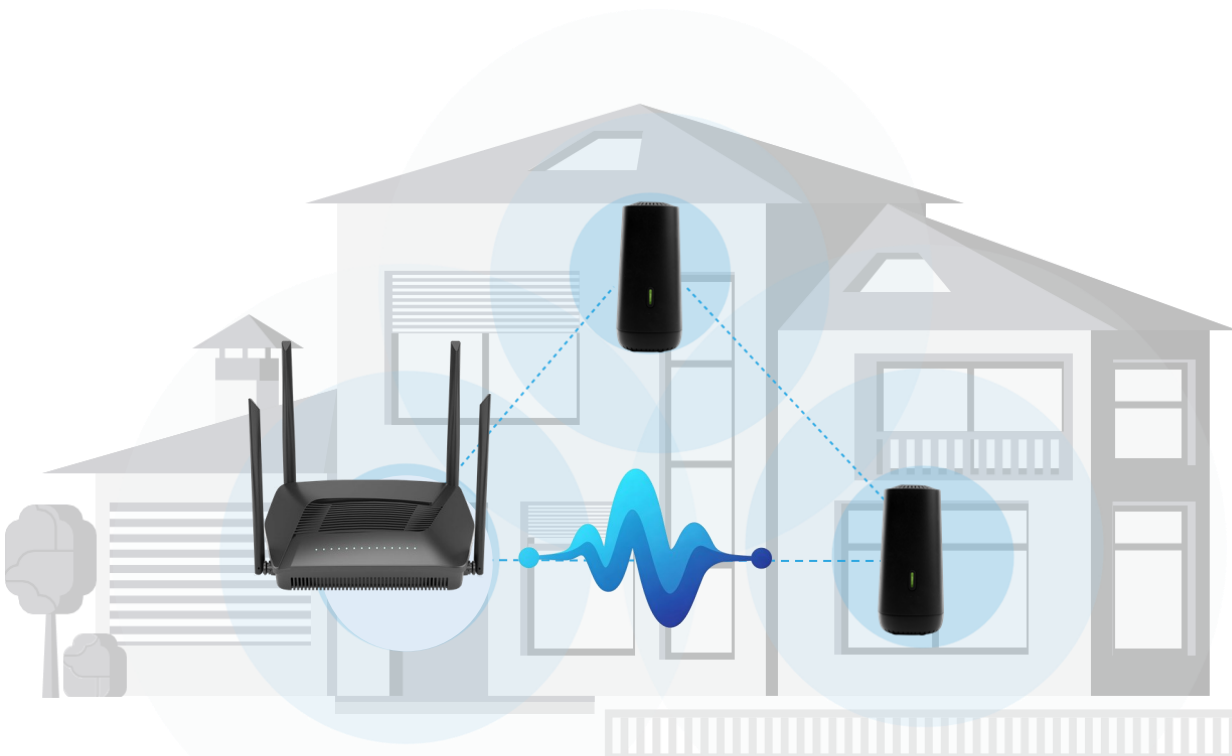


Outstanding Mesh Wi-Fi, Everywhere

- Form a Mesh network with your desired & qualified nodes.
- Excellent Wi-Fi 6 Speed up to 3000 Mbps
- Larger system capacity
- Great combination with PNET-APR3KM6 mesh repeaters for seamless connectivity

Seamless Roaming with One Wi-Fi Name

Roam seamlessly from room to room without ever dropping your Wi-Fi signal, and all you need is the unified Wi-Fi name and password to connect.



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Main Features.



Security.

Ensure a safe Internet environment.

Firewall Protect your network devices from baleful attack.

Blacklist Add specific devices to blacklist to protect your network from unauthorized devices.

WPA 3 With more secure encryption in Wi-Fi password safety and stronger protection against brute-force attacks, WPA 3 secures your Wi-Fi.



Stay Online

Guarantee a fast Wi-Fi continuously

Adaptive Path Selection It will auto-choose the optimal route dynamically for connections and applications in Mesh network, ensuring a stable network no matter where you are in the home.

Self-Healing If one mesh device has an issue, the system will automatically reroute data via the other nodes to make sure you stay online.



Discretionary Network

Work with "same family" nodes supported easy

By adding more qualified nodes to form a broader Mesh network anytime.



Easy Setup

Set up all nodes with the best place spot easily.

Auto Networking Once you configure the primary Mesh node, the other pre-paired nodes can automatically connect to the primary Mesh node and become "Plug and Play" devices.

Intelligent Indicator Find & identify a suitable location for your nodes simply.

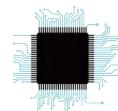


Quality of Service

Make priority for better performance when needed.

For Devices Prioritize the devices that need the fastest internet connection.

For Applications Prioritize the online activity that is most important to everyone.



Dual core processor

The PNET-GPAX3K4G1V has built-in Dual core processor. The two cores enable parallel processing and increase speeds when managing multiple instructions from your devices.

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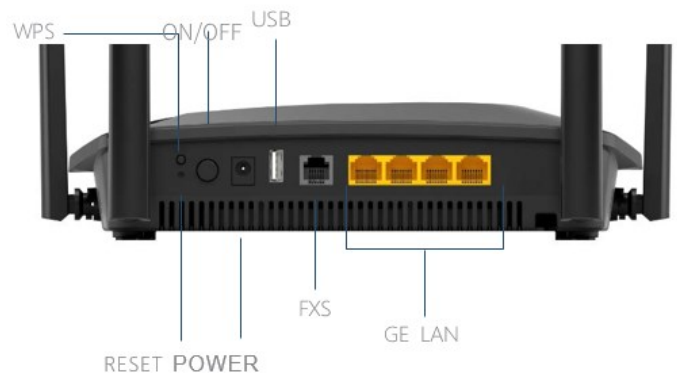
Technical Specifications.

General

- GPON Standards: ITU-T G.984
- Distance: 20Km Max
- Data Rates: Upstream:1.25Gbps, Downstream:2.5Gbps
- Wireless Standards:
 - IEEE 802.11ax/ac/n/a 5GHz
 - IEEE 802.11ax/n/b/g 2.4 GHz
- Signal Rate:
 - 5 GHz: 2402 Mbps(802.11ax),
 - 2.4 GHz: 574 Mbps(802.11ax)
- Operation Frequency:
 - 2.4GHz & 5GHz
- Wireless Security:
 - WPA-PSK;WPA2-PSK;WPA3-SAE ;WPA2-PSK/ WPA3-SAE;WPA PSK/WPA2-PSK
- VOIP Standards:
 - SIP (RFC3261), ITU-T G.729/G.722/G.711a/ G.711

Hardware

- Interfaces: 1 x SC/APC GPON Port
- 4 x 10/100/1000Mbps LAN Ports
- 1 x FXS Port
- 1 x USB 2.0 Port
- Buttons: Power ON/OFF Button, WPS/WiFi Button, Reset Button
- Power Supply: DC 12V 1.5A
- Antenna: 4 x 5dBi fixed antennas
- Dimensions (W X D X H): 231 x 135x 54mm



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Technical Specifications.

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
- Access Control: Parental Control, Local Management Control, Host List, Access Schedule, Rule Management
- Firewall Security: DoS, SPI Firewall
IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
- VOIP Features: One RJ-11 FXS ports for connecting to analog tele-phones Call forwarding, Call waiting, Call block, 3-way conference call, etc.
- Management: Access Control
Local Management Remote Management
- Internet Protocol: IPv4, IPv6

Environment.

- Operating Temperature: 0°C~45°C (32°F~113°F)
- Storage Temperature: -40°C~70°C (-40°F~158°F)
- Relative Humidity: 10%~90%, non-condensing
- Storage Humidity: 5%~95%, non-condensing

Package Contents

- 1 x GPON Router
- 1 x Quick Installation Guide
- 1 x Power Adapter
- 1 x Ethernet Cable

Certifications

- CE, RoHS