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› Linksys Velop Pro 7 WiFi Mesh System User Manual

Linksys MBE7001-AMZ

Linksys Velop Pro 7 WiFi Mesh System User Manual

Model: MBE7001-AMZ

INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your Linksys Velop Pro 7 WiFi Mesh System. The Velop Pro 7 is designed to deliver a smarter and faster whole-home mesh experience with advanced WiFi 7 technology.

The system features Cognitive Mesh technology for self-optimizing wireless performance, tri-band connectivity (2.4GHz, 5GHz, and 6GHz) for high speeds, and enhanced security features. It is capable of covering up to 3,000 sq. ft. per node and connecting over 200 devices.

PACKAGE CONTENTS

Before you begin, ensure all components are present in the package:

- Linksys Velop Pro 7 Router (Node)
- Ethernet Cable
- Power Adapter
- Quick Start Guide

SETUP

Setting up your Linksys Velop Pro 7 system is designed to be straightforward using the Linksys App. For optimal performance, one Cognitive Mesh node should be set up as the Parent Node, connected to your modem, with additional Intelligent Mesh Nodes acting as child nodes.

Initial Setup Steps:

1. **Download the Linksys App:** Search for "Linksys App" on your mobile device's app store (iOS or Android) and download it.
2. **Connect the Parent Node:**
 - Connect one end of the provided Ethernet cable to the Internet (WAN) port on the Velop Pro 7 node.
 - Connect the other end of the Ethernet cable to your modem's Ethernet port.
 - Plug the power adapter into the Velop Pro 7 node and then into a power outlet. Wait for the indicator light to turn solid blue.

3. **Launch the Linksys App:** Open the Linksys App on your mobile device and follow the on-screen instructions. The app will guide you through naming your WiFi network (SSID) and setting up a password.
4. **Add Additional Nodes (Optional):** If you have multiple Velop Pro 7 nodes, the app will guide you through adding them to your mesh network to expand coverage. Place additional nodes in areas needing extended WiFi coverage.





Figure 1: Linksys Velop Pro 7 Router. This image shows the sleek, vertical design of the Velop Pro 7 node, which is designed to blend into home environments.



Easy-peasy setup.

It's fast. It's easy. And it's awesome.

- 1**
Download the Linksys App.
- 2**
Name your WiFi Network.
- 3**
Let it guide you online.
- 4**
Customizable mesh configuration for your home.

The fastest WiFi setup around.

Figure 2: Easy Setup Steps. This graphic illustrates the four simple steps for setting up the Velop Pro 7: download the app, name your network, follow online guidance, and customize mesh configuration.

OPERATING INSTRUCTIONS

The Linksys Velop Pro 7 leverages advanced technologies to provide a robust and efficient home network. Understanding its features will help you optimize your WiFi experience.

Cognitive Mesh Technology:

Cognitive Mesh is an intelligent, self-optimizing wireless system that continuously monitors your network for interference and congestion. It smartly allocates devices to less crowded frequencies, ensuring a consistent and reliable connection, even in high-traffic environments. This technology also monitors node and client experience, allowing for remote support from Linksys if needed.

Tri-Band System and Speeds:

- **2.4GHz:** Up to 600 Mbps (2 spatial streams @ 40MHz channel) - Ideal for basic internet use and older devices.

- **5GHz:** Up to 4324Mbps (2 spatial streams @ 240MHz channel) - Suitable for high-bandwidth activities like streaming and gaming.
- **6GHz:** Up to 5765Mbps (2 spatial streams @ 320MHz channel) - The dedicated band for WiFi 7, offering ultra-low latency and blazing-fast speeds for demanding applications.

Unlock the 6GHz super runway

Experience blazing-fast WiFi speed
with ultra-low latency.

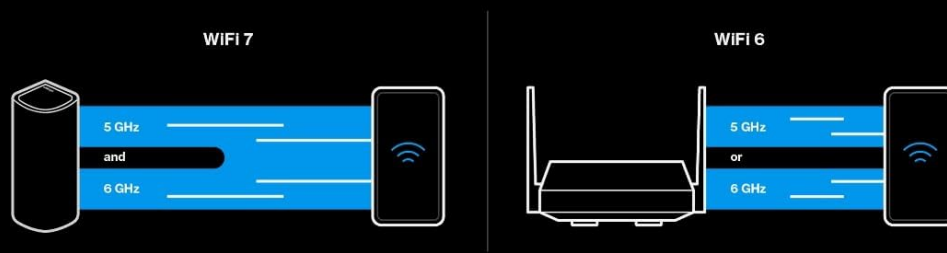


Figure 3: Unlock the 6GHz Super Runway. This image highlights the three frequency bands (2.4GHz, 5GHz, 6GHz) and emphasizes the expanded 6GHz band for superior performance.

Multi-Link Operation (MLO):

MLO maximizes the use of all available bands (2.4GHz, 5GHz, and 6GHz) simultaneously to deliver higher reliability, faster throughput, and lower latency. This ensures persistent connections and automatic failover, improving overall network stability and speed.

Persistent connections and automatic failover



Multi-Link Operation (MLO)

Maximizing the use of all the bands to deliver higher reliability, faster throughput, and lower latency.



2.4X faster WiFi speed for better battery life

Ultrawide 320 MHz band and 4K QAM - delivers 2X higher capacity and 20% more data than WiFi 6 for higher speeds, saving your device's battery life.

Figure 4: Multi-Link Operation (MLO). This diagram illustrates how WiFi 7 utilizes multiple bands concurrently for improved performance compared to WiFi 6.

Wired Connectivity:

The Velop Pro 7 includes multiple Ethernet ports for wired connections:

- **4x 1 Gbps ports:** For connecting wired devices such as gaming consoles, computers, and smart TVs.
- **1x 2.5 Gbps internet port:** To support multi-gig internet services from your service provider, ensuring you can take full advantage of high-speed internet plans.

Blazing-fast wired speeds

- 4x 1 Gbps ports to connect your wired devices to your WiFi network
- 2.5 Gbps internet port to support multi-gig internet services from your service provider

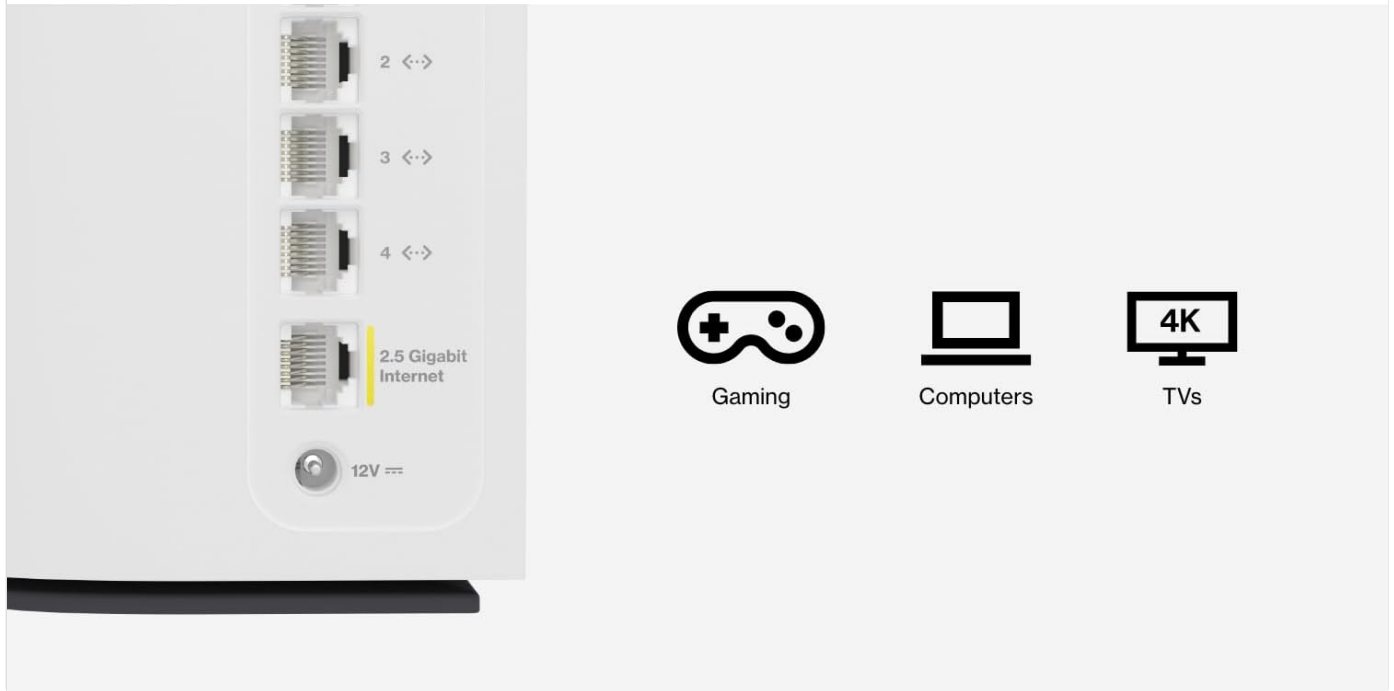


Figure 5: Blazing-Fast Wired Speeds. This image displays the rear of the Velop Pro 7 node, showing the Ethernet ports for wired connections, including the 2.5 Gigabit Internet port.

Linksys App Features:

The Linksys App provides comprehensive control over your network:

- **Parental Controls:** Create device schedules and block specific websites.
- **Device Prioritization:** Prioritize streaming or gaming devices to prevent buffering.
- **Guest Access:** Generate a separate, password-protected WiFi network for guests, keeping your main network secure.
- **Cognitive Security:** Unlock advanced security options within the app to protect your browsing and network from threats.

The Linksys App makes it easy to set up your WiFi in under 10 minutes. Make adjustments with a self-guided choice of your home topology and access all your settings at your fingertips. Download the app to manage your devices and network from anywhere at any time.



Parental Controls

Create device schedules, block certain websites.



Device Prioritization

Prioritize streaming devices to prevent buffering.



Guest Access

Generate a separate, password-protected WiFi.



Link up with Linksys support

Talk to the Linksys Support team to help with setup or whenever you need them, online or by phone.

Linksys Velop Pro 7 powered by Cognitive Mesh Technology uses the latest, most advanced WiFi 7 technology, so it is not compatible with Linksys Intelligent Mesh solutions.

Figure 6: Linksys App Management. This graphic highlights key features accessible via the Linksys App, including Parental Controls, Device Prioritization, and Guest Access.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Linksys Velop Pro 7 system.

- **Firmware Updates:** Regularly check for and install firmware updates through the Linksys App. Updates often include performance improvements, security enhancements, and bug fixes.
- **Placement:** Place your Velop nodes in open, central locations, away from large metal objects, concrete walls, and other electronic devices that may cause interference. The Velop Pro 7 features thermally optimized venting for enhanced performance and energy efficiency, so ensure adequate airflow around the device.
- **Cleaning:** Gently wipe the exterior of the nodes with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials.
- **Restarting:** Periodically restarting your Velop system (unplugging from power for 10 seconds and plugging back in) can help resolve minor network issues and refresh connections.

Designed to hide in plain sight

Droplet design.
Inspired by nature.



Figure 7: Discreet Design. The Velop Pro 7's droplet design allows it to blend seamlessly into various home decors, making optimal placement easier.

Built for performance

- Powerful 1.5 GHz quad-core processor optimized for WiFi 7
- Antennas located for expanded coverage
- Thermally optimized venting for enhanced performance and energy efficiency
- Die-cast chassis and aluminum heat sinks



Figure 8: Built for Performance. This image shows the internal components of the Velop Pro 7, highlighting its powerful 1.5 GHz quad-core processor, optimized antennas, and thermal design for efficient operation.

TROUBLESHOOTING

If you encounter issues with your Linksys Velop Pro 7 system, refer to the common troubleshooting steps below. For more complex problems, contact Linksys Customer Support.

Common Issues and Solutions:

Problem	Possible Cause	Solution
No Internet Connection	Modem issue, incorrect cable connection, or ISP outage.	Check if your modem is working correctly. Ensure the Ethernet cable from the modem is securely connected to the Velop Pro 7's Internet (WAN) port. Restart both your modem and the Velop Pro 7 node. Contact your Internet Service Provider (ISP) to check for outages.

Problem	Possible Cause	Solution
Frequent Disconnections or Slow Speeds	Interference, outdated firmware, or improper node placement.	Ensure Velop nodes are placed centrally and away from interference sources. Update the firmware via the Linksys App. Use the Linksys App to check for network congestion and optimize device allocation. Consider adding more nodes if coverage is insufficient.
Cannot Connect Older Devices	Older devices may not support newer security protocols (WPA3).	Check your device's compatibility with WPA2/WPA3 security. In some cases, adjusting security settings in the Linksys App to WPA2/WPA3 mixed mode might help, but this can reduce overall network security.
Setup Issues via App	App glitch, incorrect steps, or temporary network issue.	Ensure your mobile device's Bluetooth is enabled during setup. Try restarting the app and the Velop node. Verify you are following the Quick Start Guide and app instructions precisely. If issues persist, contact Linksys Customer Support.
Velop Pro 7 Not Compatible with Older Velop Nodes	Different architecture and technology.	The Velop Pro 7 (MBE7001) uses a different architecture and is not compatible with previous Linksys Intelligent Mesh solutions (e.g., Velop Atlas Max6E). This system requires all nodes to be Velop Pro 7 series for mesh functionality.

SPECIFICATIONS

Feature	Detail
Model Name	Velop Pro 7 (MBE7001-AMZ)
Product Dimensions	3.74 x 3.74 x 8.74 inches
Item Weight	1 pounds
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Wireless Communication Standard	802.11.be (WiFi 7), 802.11ac, 802.11ax (WiFi 6), 802.11g, 802.11n
Connectivity Technology	Ethernet, Wi-Fi
Ethernet Ports	4x 1 Gbps LAN, 1x 2.5 Gbps WAN
Processor	Powerful 1.5 GHz quad-core processor
Coverage per Node	Up to 3,000 sq. ft.
Connected Devices	Supports 200+ devices
Special Feature	Remote Access, Cognitive Mesh, Cognitive Security

WARRANTY AND SUPPORT

Linksys provides comprehensive support for your Velop Pro 7 system.

- **Warranty:** The Linksys Velop Pro 7 comes with an extended 3.5 Year Warranty.
- **Technical Support:** 24/7 Tech Support is available. For assistance, you can contact Linksys expert WiFi troubleshooters by phone in the US at [+1-800-326-7114](tel:+18003267114).
- **App-based Support:** The Linksys App allows you to open support tickets and receive remote assistance from Linksys.

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For more information, visit www.linksys.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

I have the Linksys Velop Pro 7 and I am trying to add it to the app, but when I enter my password, it is not adding the device to my Linksys account. How can I fix this?

If you are having trouble adding your Linksys Velop Pro 7 (MBE7001) to your account via the Linksys App, please try the following troubleshooting steps:Check Bluetooth: Ensure that Bluetooth is enabled on your mobile...

[Read full answer](#)