



# xunison D50 Home Hub High Performance WiFi 6 Mesh System User Guide

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**xunison D50 Home Hub High-Performance WiFi 6 Mesh System**



## Product Information

The Xunison D50 Home is a high-performance Wi-Fi 6 Mesh system that delivers speeds of up to 5400 Mbps, ensuring the ultimate user experience. It supports Wi-Fi 6 (ax) and is compatible with various Wi-Fi standards, including older ones, for reliable connections with a range of devices. The mesh technology boosts Wi-Fi coverage, eliminates dead zones, and ensures a reliable connection. It also offers an easy setup with rapid one-button pairing. The matter technology allows smart devices from different companies to communicate, simplifying control and creating an integrated smart home. The device has 3GE x LAN ports and 1GE x WAN port to connect PCs, Laptops, etc. via Ethernet cables and to connect Ethernet cable from the Xunison Hub D50 Home router to the ISP source. The device also has a DC jack for the power supply (12V 2A).

## Product Usage Instructions

### 1. Product Installation:

1. Connect the Ethernet cable (labeled 1) from the home internet to the WAN port on the router. Note: Disconnect the cable (1) to use the device in satellite mode.
2. Connect the power cable (labeled 2) to the device.
3. Press the power button (labeled 3) to turn on the device.

### 2. Product Configuration:

1. Connect your mobile device to the Xunison Hub D50 Home network by entering the Wi-Fi details printed on the device sticker.
2. To install the Xunison app, you can either scan the QR code on the welcome card or download the Xunison app from Google Play Store or App Store.
3. After installing the app, log in with your registered account to access the Xunison Hub D50 Home

features.

3. **LED Indicators:** The LED indicators on the device show the status of Wi-Fi, internet, matter, and power.
4. **Ports and Interfaces:** The device has 3GE x LAN ports, 1GE x WAN port, a DC jack for power supply (12V 2A), and buttons for POWER, PAIR, and RESET.
5. **Safety Guidelines:** Use only original and certified cables. Avoid exposing the device to water during storage, transportation, and operation. Keep the device away from heat sources and ensure adequate ventilation. Do not use any corrosive cleaner/oil to clean the appliance. Keep the device out of reach of children. Check the cable connections after installing the device. Place the Xunison Hub D50 Home in an appropriate location for seamless internet connectivity. Restart the device in case of any internet connectivity problems. Change your Wi-Fi passwords regularly.

## Product Introduction

- The Xunison D50 Home provides a high-performance Wi-Fi 6 Mesh system that can deliver speeds of up to 5400 Mbps, which ensures the ultimate user experience.
- The system also integrates matter technology, further enhancing its capabilities.

### Wi-Fi 6 (ax)

- This device supports Wi-Fi 6 and is compatible with various Wi-Fi standards, including older ones, for reliable connections with a range of devices.

### Mesh

- Mesh technology boosts Wi-Fi coverage, eliminates dead zones, and ensures reliable connection. It also offers an easy setup with rapid one-button pairing.

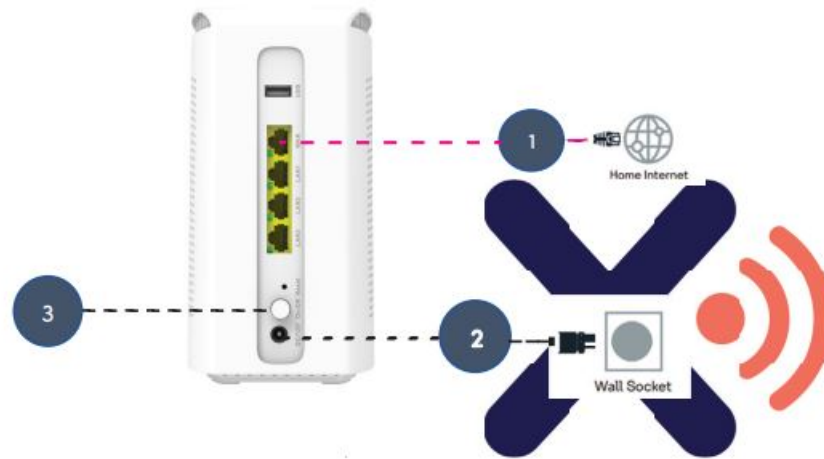
### Matter Technology

- Technology that allows smart devices from different companies to communicate, simplifying control and creating an integrated smart home.

## Product Installation

### Ensure the cables are connected.

1. Connect the Ethernet cable (labeled “1”) from the home internet to the WAN port on the router.
  - **Note:** Disconnect the cable ( 1) to use the device in satellite mode.
2. Connect the power cable (labeled “2”) to the device.
3. Press the power button (labeled “3”) to turn on the device.



## Product Configuration


- **Step 1:** Connect your mobile device to the Xunison Hub D50 Home network by entering the Wi-Fi details printed on the device sticker.
- **Step 2:** To install the Xunison app, you can either scan the QR code on the welcome card.
- **Step 3:** Alternatively, you can also download the Xunison app from Google Play store or App store.
- After installing the app, log in with your registered account to access the features of the Xunison Hub D50 Home.

## LED Indicators

LEDs	Color		Symbol	Status	
Wi-Fi	Solid Green		Wi-Fi	Wi-Fi ON	
	OFF			Wi-Fi OFF	
Internet	Solid Green		Internet	Internet Connected	
	OFF			No Internet Connection	
Matter	Solid Green		Matter	MatterON	
	Blinking	Green		Adding the Matter device	
	OFF			MatterOFF	
Power	Solid Green		Power	Powered ON	
	OFF			Powered OFF	

LED	Mode	Color		Symbol	Status
Mesh	Gateway	Solid Green		Mesh	Mesh Network Connected/Regular
		Blinking	Green		Gateway Pairing
	Satellite	Quick Oran	Blinking ge	Mesh	Satellite Pairing
		Solid Green			Pairing successful
		Blinkin	g Red		Mesh Failed

## Ports and Interfaces

	Ports	Description
	3GE x LAN	To connect PCs, Laptops, etc. via Ethernet cables.
	USB 2.0	To charge devices such as smart phone, power bank etc.
	1GE x WAN	Connect Ethernet cable from Xunison Hub D50 Home router to ISP source.
	DC jack	For power supply( 12V 2A).

Button	Description
POWER	Turn the device On/Off
PAIR	Long press the PAIR button for 5-10 seconds to setup the Mesh mode.
RESET	Press the “RESET” button for 10 seconds to factory reset the device to default settings.

## Safety Guidelines

### General tips

- Use only original and certified cables.
- Avoid exposing the device to water during storage, transportation, and operation.
- Keep the device away from heat sources and ensure adequate ventilation.
- Do not use any corrosive cleaner/oil to clean the device.

- Keep the device out of reach of children.

### Installation tips:

- Check the cable connections after installing the device.
- Place the Xunison Hub D50 Home in an appropriate location for seamless internet connectivity.
- Restart the machine in case of any internet connectivity problems.
- Change your Wi-Fi passwords regularly

### Caution:

- Do not disassemble the device in case of malfunction or damage. Instead, change the connections and contact technical support for assistance

### RF Parameters

- **Frequency Range Zigbee:** 2405-2480MHz
- Maximum Conducted Peak
- **Output Power Zigbee:** 16.34dBm
- **Modulation Technique Zigbee:** O-QPSK
- Antenna Specification 5.0dBi (provided by the applicant)
- **Frequency Range Wi-Fi:** 2412-2462MHz
- Maximum Conducted Average Output Power Wi-Fi:
  - **802.11b:** 17.88dBm, 802.11g: 17.62dBm, 802.11n-HT20: 17.51dBm
  - **802.11n-HT40:** 17.84dBm, 802.11ax-HEW20: 17.48dBm,
  - **802.11ax-HEW40:** 17.46dBm
- **Modulation Technique Wi-Fi:** DSSS, OFDM, OFDMA
- **Antenna Specification ANT 0:** 5.0dBi, ANT 1: 5.0dBi (provided by the applicant)
- **Frequency Range 5G Wi-Fi:** 5150~5250MHz ; 5250-5350MHz ;5470-5725MHz ; 5725~5850 MHz;
- Device Type Master Device
  - Mode 802.11a/n20/n40/ac20/ac40/ac80/ac160/ax20/ax40/ax80/ax160
- **Maximum Conducted Average Output Power 5150-5250MHz:** 18.40dBm
  - **5250-5350MHz:** 20.34dBm
  - **5470-5725MHz:** 20.48dBm
  - **5725-5850MHz:** 19.90dBm
- Modulation Technique OFDM, OFDMA
- **Antenna Specification ANT 0:** 5.0dBi, ANT 1: 5.0dBi, ANT 2: 5.0dBi, ANT 3: 5.0dBi (It is provided by the applicant)

### For additional information

- For answers to your support questions and to access the latest downloads and product services, please visit [xunison.com/support](https://xunison.com/support).
- If you experience any issues with our product features or functionality, you can also submit a ticket for

assistance.


## Disposal Note

- **Note** that electronic devices should not be disposed of in household waste, and at the end of its service life, the product should be disposed of in accordance with the applicable regulatory guidelines. By doing so, you fulfill your statutory obligations and contribute to the protection of the environment.
- This means that the device is only permitted to operate on Wireless Access Systems, such as radio local area networks, within the frequency band of 5150-5350 MHz for indoor use only, and only within the countries of the European Union listed: BE/BG/CZ/DK/DE/EE/IE/EL/ES/-FR/HR/IT/CY/LV/LT/LU/HU/MT/NL/AT/PL/PT/RO/SI/SK/FI/SE/ TR/NO/CH/IS/LI/UK(NI). The device is not permitted to operate outdoors within this frequency band or in other countries outside of the EU without the appropriate regulatory approvals.

## Declaration of Conformity

- Hereby, Xunison Ltd. declares that the radio equipment type D50 Home is in compliance with Directive 2014/53/EU. The full text of the EU declaration of Conformity is available at the following internet address: [xunison.com/support](https://xunison.com/support) Compliance
- Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body
- Bracken Business Park, Bracken Rd, Sandyford Business Park, Sandyford, Dublin, Ireland [www.xunison.com](https://www.xunison.com)

## Documents / Resources

	<a href="#">xunison D50 Home Hub High Performance WiFi 6 Mesh System</a> [pdf] User Guide 2BAT3D50H, 2BAT3D50H, D50 Home Hub, D50 Home Hub High Performance WiFi 6 Mesh System, High Performance WiFi 6 Mesh System, WiFi 6 Mesh System, Mesh System
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## References

-  [Home - Xunison](#)
-  [Support - Xunison](#)