

DX4510-B1

AX6000 WiFi6 VDSL2 Bonding Gateway

Quick Start Guide

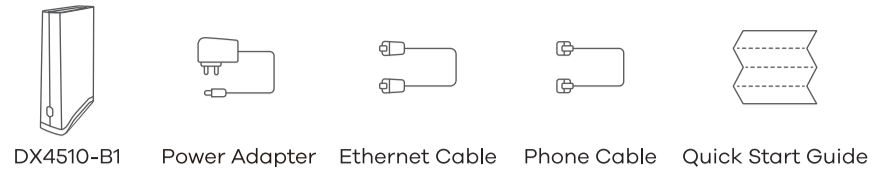
A member of the Zyxel MPro Mesh solution family.

MPro Mesh Solution:

- DX4510-B0/DX4510-B1
- EX3510-B0/EX3510-B1
- WX3310-B0/WX3310-B1
- MPro Mesh App

Visit www.zyxel.com/us/en for updated information.

Package Contents



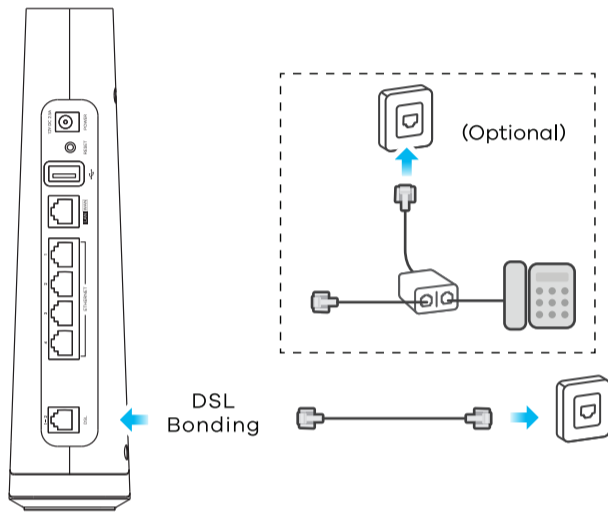
US Importer

Zyxel Communications, Inc
1130 North Miller Street Anaheim, CA 92806-2001
<https://www.zyxel.com/us/en/>

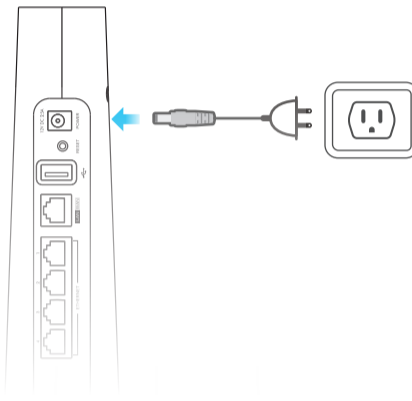
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Step 1 Hardware Installation

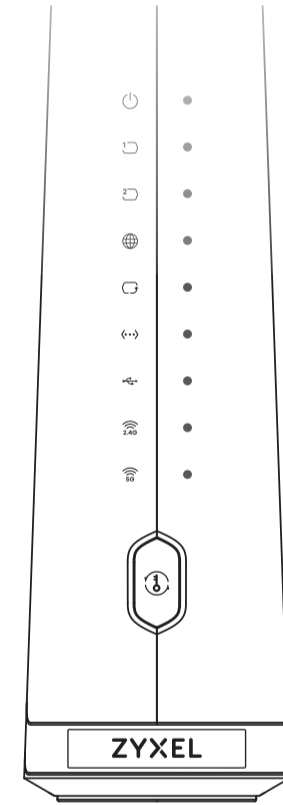
- 1** Use the phone cable to connect the DSL port and telephone wall outlet directly. Use a splitter/filter (optional) if also connecting a telephone.



- 3** Connect the power adapter to the DX4510-B1 and wait for 2 minutes. Check the DX4510-B1 front panel. Refer to the status in step 4

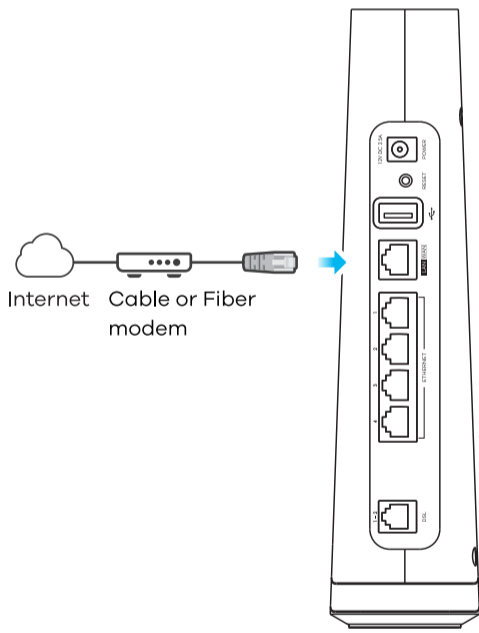


4



POWER	Green	On - Power is on.
	Blinking	Starting up.
INTERNET	Red	On - System failure.
	Blinking	Upgrading firmware.
INTERNET	Green	On - DSL Internet is ready.
	Blinking	Transmitting/receiving Internet data.
INTERNET	Red	On - Attempted to get an IP address, but failed.

- 2** Use the included Ethernet cable to connect the cable or fiber modem's LAN port to the DX4510-B1's WAN port.



Step 2 WiFi Connection A or B

The label on the side of the DX4510-B1 provides 2 ways to connect your wireless device to WiFi:

Method A: Scan QR code or Method B: Using SSID

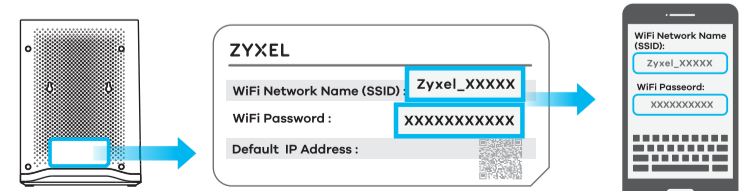
Method A: SCAN QR code to connect WiFi

- Check the QR code on the DX4510-B1's side label, and use your wireless device to scan this QR code.
- After scanning the QR code, join this SSID and you can surf the internet.



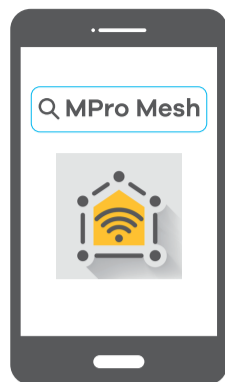
B. Using the SSID method to connect WiFi

- The WiFi SSID is on the DX4510-B1's side label.
- On your wireless device, find this SSID and enter the WiFi Password on your wireless clients and you can surf the internet.

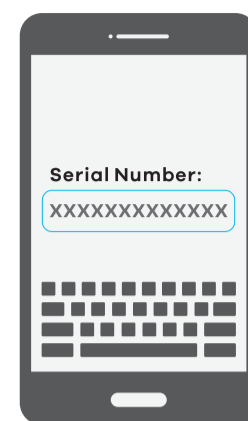
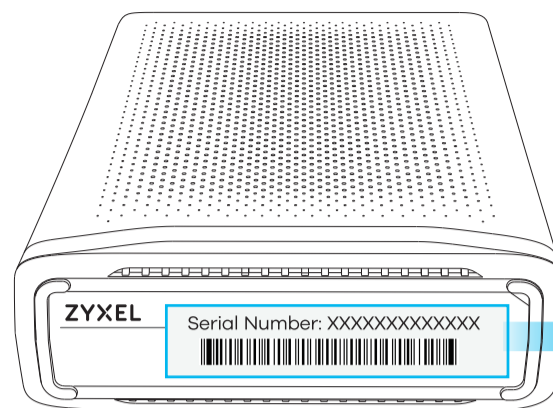


Step 3 App Management

- 1 After successfully surfing the internet, please download the MPro Mesh app to your wireless device to manage your MPro Mesh.



- 2 Open this app and enter the DX4510-B1's serial number. The serial number is on the bottom label as below.

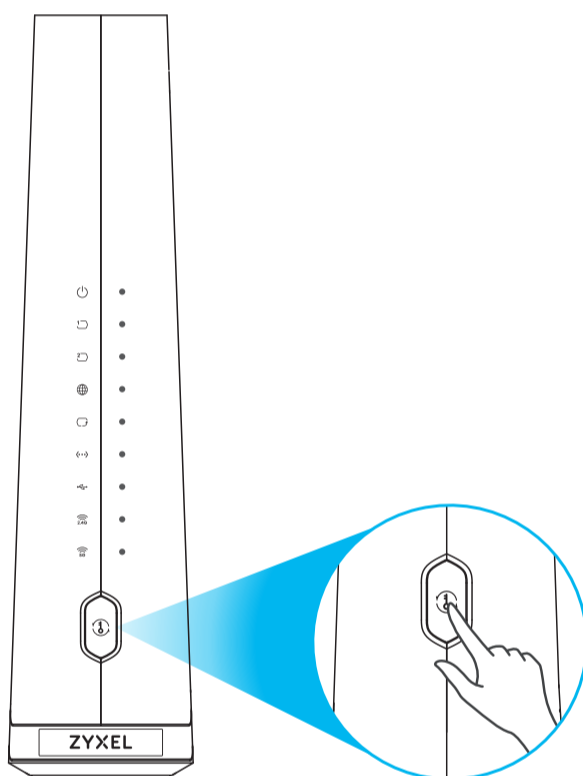


- 3 Use this app to enjoy the following features:

- Remote Management
- View Home Devices
- Guest Wi-Fi
- Manage Home Wi-Fi Name
- Internet Instant Block
- Add Mesh Extender
- Push Notification

Adding a Wireless Extender

WPS button: If you have a wireless extender you want to add to your DX4510-B1's WiFi network, press the DX4510-B1 button once, and press the WPS button on your extender within 120 seconds to start the WPS process.



Safety Warnings

- DO NOT use this product near water, for example, in a wet basement or near a swimming pool.
- DO NOT expose your device to dampness, dust or corrosive liquids.
- DO NOT store things on the device.
- DO NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning.
- Connect ONLY suitable accessories to the device.
- DO NOT open the device or unit. Opening or removing covers can expose you to dangerous high voltage points or other risks.
- ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information.
- Make sure to connect the cables to the correct ports.
- Place connecting cables carefully so that no one will step on them or stumble over them.
- Always disconnect all cables from this device before servicing or disassembling.
- Please use the provided or designated connection cables/power cables/ adaptors. Connect it to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe). If the power adaptor or cord is damaged, it might cause electrocution. Remove it from the device and the power source, repairing the power adaptor or cord is prohibited. Contact your local vendor to order a new one.
- DO NOT remove the plug and connect it to a power outlet by itself; always attach the plug to the power adaptor first before connecting it to a power outlet.
- DO NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord.
- DO NOT use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning.
- CAUTION: Risk of explosion if battery (on the motherboard) is replaced by an incorrect type. Dispose of used batteries according to the instructions. Dispose of them at the applicable collection point for the recycling of electrical and electronic equipment. For detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the store where you purchased the product.
- DO NOT obstruct the device ventilation slots, as insufficient airflow may harm your device. For example, do not place the device in an enclosed space such as a box or on a very soft surface such as a bed or sofa.
- The following warning statements apply, where the disconnect device is not incorporated in the equipment or where the plug on the power supply cord is intended to serve as the disconnect device,
 - for permanently connected devices, a readily accessible disconnect device shall be incorporated external to the equipment;
 - for pluggable devices, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- Caution! The RJ-45 jacks are not used for telephone line connection.

Regulatory Notice and Statement

UNITED STATES of AMERICA



The following information applies if you use the device within the USA.

FCC EMC Statement

- The device complies with Part 15 of 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.
- This device has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
- If this device does cause harmful interference to radio or television reception, which is found by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna
 - Increase the separation between the devices
 - Connect the equipment to an outlet other than the receiver's
 - Consult a dealer or an experienced radio/TV technician for assistance

The following information applies if you use the device with RF function within the USA.

FCC Radiation Exposure Statement

- This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
- This transmitter must be at least 24 cm from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.
- Operation of this device is restricted to indoor use only, except for relevant user's manual mention that this device can be installed into the external environment.
- For 2.4G WLAN, only channels 1 - 11 are operational. Selection of other channels is NOT possible.

This equipment complies with Part 68 of the FCC rules. Located on the equipment is a label that contains, among other information, the ACTA registration number and ringer equivalence number (REN.) If requested, this information must be provided to the telephone company.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN's contact the telephone company to determine the maximum REN for the calling area.

This equipment cannot be used on the telephone company-provided coin service. Connection to Party Line Service is subject to State Tariffs.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact:

Company Name: ZyXel Communications Inc.
Address: 1130 North Miller Street Anaheim, CA 92806-2001
TEL: 714-632-0882

If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

This equipment uses the following USOC jacks: RJ14C
REN: 0.1

It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightning strikes and other electrical surges.

CANADA

The following information applies if you use the device within Canada.

Innovation, Science and Economic Development Canada ICES Statement

CAN ICES-003 (B)/NMB-003(B)

Innovation, Science and Economic Development Canada RSS-GEN & RSS-247 Statement

- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage; (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
- This radio transmitter (2468C-DX4510B1) has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed, are strictly prohibited for use with this device.
- Le présent émetteur radio (2468C-DX4510B1) a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.
- For 2.4G WLAN, only channels 1 – 11 are operational. Selection of other channels is NOT possible.

Antenna Information

NO.	MODEL NAME	TYPE	MANUFACTURER	GAIN	CONNECTOR
1	56-001-000047Z	Dipole	WHAYU	2.70 dBi (2.4-2.4835 GHz)	i-pex (MHF)
2	56-001-000048Z	Dipole	WHAYU	2.31 dBi (2.4-2.4835 GHz)	i-pex (MHF)
3	56-001-000049Z	Dipole	WHAYU	2.57 dBi (2.4-2.4835 GHz)	i-pex (MHF)
4	56-001-000050Z	Dipole	WHAYU	2.53 dBi (2.4-2.4835 GHz)	i-pex (MHF)
5	56-001-000051Z	Dipole	WHAYU	2.60 dBi (5.15-5.25 GHz) 2.92 dBi (5.25-5.35 GHz) 3.31 dBi (5.47-5.725 GHz) 3.16 dBi (5.725-5.85 GHz)	i-pex (MHF)
6	56-001-000052Z	Dipole	WHAYU	2.99 dBi (5.15-5.25 GHz) 3.22 dBi (5.25-5.35 GHz) 3.13 dBi (5.47-5.725 GHz) 2.18 dBi (5.725-5.85 GHz)	i-pex (MHF)
7	56-001-000053Z	Dipole	WHAYU	3.48 dBi (5.15-5.25 GHz) 3.09 dBi (5.25-5.35 GHz) 3.79 dBi (5.47-5.725 GHz) 2.46 dBi (5.725-5.85 GHz)	i-pex (MHF)
8	56-001-000054Z	Dipole	WHAYU	0.63 dBi (5.15-5.25 GHz) 2.62 dBi (5.25-5.35 GHz) 2.61 dBi (5.47-5.725 GHz) 3.73 dBi (5.725-5.85 GHz)	i-pex (MHF)

If the device with 5G wireless function operating in 5150-5250 MHz and 5725-5850 MHz, the following attention must be paid,

- The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
- For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
- Where applicable, antenna type(s), antenna model(s), and the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2.3 of RSS 247 shall be clearly indicated.
- If the device with 5G wireless function operating in 5250-5350 MHz and 5470-5725 MHz, the following attention must be paid.
- For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit.

Informations Antenne

NUMÉRO	NOM DU MODÈLE	TYPE	FABRICANT	GAIN	CONNECTEUR
1	56-001-000047Z	Dipole	WHAYU	2.70 dBi (2.4-2.4835 GHz)	i-pex (MHF)
2	56-001-000048Z	Dipole	WHAYU	2.31 dBi (2.4-2.4835 GHz)	i-pex (MHF)
3	56-001-000049Z	Dipole	WHAYU	2.57 dBi (2.4-2.4835 GHz)	i-pex (MHF)
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7	56-001-000053Z	Dipole	WHAYU	3.48 dBi (5.15-5.25 GHz) 3.09 dBi (5.25-5.35 GHz) 3.79 dBi (5.47-5.725 GHz) 2.46 dBi (5.725-5.85 GHz)	i-pex (MHF)
8	56-001-000054Z	Dipole	WHAYU	0.63 dBi (5.15-5.25 GHz) 2.62 dBi (5.25-5.35 GHz) 2.61 dBi (5.47-5.725 GHz) 3.73 dBi (5.725-5.85 GHz)	i-pex (MHF) REN: 0.1

Lorsque la fonction sans fil 5G fonctionnant en 5150-5250 MHz and 5725-5850 MHz est activée pour ce produit, il est nécessaire de porter une attention particulière aux choses suivantes

- Les dispositifs fonctionnant dans la bande de 5 150 à 5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée, selon le cas;
- Lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3 du CNR-247, doivent être clairement indiqués.
- Lorsque la fonction sans fil 5G fonctionnant en 5250-5350 MHz et 5470-5725 MHz est activée pour ce produit, il est nécessaire de porter une attention particulière aux choses suivantes.
- Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5 250 à 5 350 MHz et de 5 470 à 5 725 MHz doit être conforme à la limite de la p.i.r.e.

Industry Canada radiation exposure statement

This device complies with ISED radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with a minimum distance of 29 cm between the radiator and your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 29 cm de distance entre la source de rayonnement et votre corps.

Statement of compliance

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le présent produit est conforme aux spécifications techniques applicables d'Innovation, Sciences et Développement économique Canada.

The REN statement is the following:

The Ringer Equivalence Number (REN) indicates the maximum number of devices allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices not exceed five.

REN: 0.1

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de dispositifs qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme des IES de tous les dispositifs n'excède pas cinq.

REN: 0,1