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## Netgear XE102US

# NETGEAR XE102 Wall-Plugged Ethernet Bridge Instruction Manual

Model: XE102US | Brand: Netgear

## 1. PRODUCT OVERVIEW

The NETGEAR XE102 Wall-Plugged Ethernet Bridge provides a simple solution for extending your network using existing electrical wiring. This device allows you to bring internet connectivity to any room in your home without the need for new cabling. It is designed for ease of use and offers stable wired connections.



*Image: The NETGEAR XE102 Wall-Plugged Ethernet Bridge, a compact white device, is shown plugged into a standard wall outlet. An Ethernet cable is connected to its bottom port, and three green LED indicator lights are visible on its front panel, indicating power, network activity, and connection status. The device features a pass-through electrical outlet on its front, allowing other devices to be plugged in without blocking the wall socket.*

## 2. SETUP INSTRUCTIONS

Setting up your NETGEAR XE102 Wall-Plugged Ethernet Bridge is a straightforward process, thanks to its plug-and-play functionality. A minimum of two XE102 units are required to establish a powerline network.

1. **Connect the First Adapter:** Plug one XE102 adapter into a power outlet near your internet router. Use an Ethernet

cable (included) to connect this adapter to an available Ethernet port on your router.

2. **Connect the Second Adapter:** Plug the second XE102 adapter into a power outlet in the area where you need extended network coverage. Ensure this outlet is on the same electrical circuit as the first adapter for optimal performance.
3. **Verify Connection:** Once both adapters are plugged in, observe the LED indicator lights on the front of each unit. The power LED should be solid green, and the 'Pick a Plug' LED (middle LED) should also be green, indicating a good connection between the two adapters.
4. **Connect Your Device:** Use another Ethernet cable to connect your computer, gaming console, smart TV, or other network-enabled device to the Ethernet port on the second XE102 adapter. The Ethernet LED (bottom LED) on the adapter should light up, confirming a wired connection to your device.
5. **Security Setup (Optional):** For enhanced security, you can enable encryption. This typically requires a computer running Windows XP, 2000, ME, or 98 and the provided resource CD. Refer to the resource CD for detailed instructions on setting up network security.

The integrated pass-through power outlet on the adapter ensures that it does not block any nearby wall outlets, allowing you to continue using the electrical socket for other devices.

### 3. OPERATING INSTRUCTIONS

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The NETGEAR XE102 Wall-Plugged Ethernet Bridge extends your network using your home's existing electrical wiring, providing stable and fast wired connections for various online activities.

- **Network Extension:** Once set up, the adapters create a network bridge, allowing devices connected to the second adapter to access the internet and other network resources as if they were directly connected to your router.
- **Speed:** The device delivers wired speeds of up to 14 Mbps, suitable for web browsing, online gaming, email, and file sharing.
- **Data Integrity:** The XE102 utilizes Forward Error Correction (FEC) and Automatic Channel Adaptation technologies to maintain the integrity and reliability of data transmission over your electrical lines.
- **LED Indicators:** The three easy-to-read icon LEDs provide quick status information at a glance:
  - **Power LED:** Solid green when powered on. Solid amber when in power-saving mode. Blinking green during security setup. Off when not powered.
  - **Pick a Plug LED:** Indicates the quality of the powerline connection (green for best, amber for better, red for good).
  - **Ethernet LED:** Solid green when an Ethernet connection is active.

### 4. MAINTENANCE

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To ensure optimal performance and longevity of your NETGEAR XE102 adapters, consider the following maintenance tips:

- **Placement:** Plug the adapters directly into wall outlets. Avoid plugging them into power strips, surge protectors, or extension cords, as this can degrade performance and stability.
- **Heat Management:** The units may become warm during operation. Ensure they are placed in well-ventilated areas and not covered by other objects to prevent overheating.
- **Cleaning:** Periodically wipe the exterior of the adapters with a soft, dry cloth to remove dust. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Check the Netgear support website periodically for any available firmware updates for your model. Keeping the firmware updated can improve performance and security.

## 5. TROUBLESHOOTING

If you encounter issues with your NETGEAR XE102 Wall-Plugged Ethernet Bridge, try the following troubleshooting steps:

- **No Connection / Intermittent Connection:**

- Ensure both XE102 units are plugged directly into wall outlets, not power strips or surge protectors.
- Verify that both adapters are on the same electrical circuit. Powerline performance can be affected by different circuits.
- Unplug both adapters from their wall outlets, wait for 10 seconds, and then plug them back in. This can reset the connection.
- Be patient during initial setup; it may take up to 30 minutes for the units to establish a connection. Repeatedly unplugging and plugging them back in can slow down the process.
- Check the Ethernet cables for secure connections and any damage. Try swapping cables if necessary.

- **Slow Speed:**

- The connection speed can vary based on the electrical environment. Older or complex electrical wiring can reduce performance.
- Ensure no high-power consuming appliances (e.g., washing machines, refrigerators) are on the same circuit as the adapters, as they can introduce electrical noise.
- Check the 'Pick a Plug' LED for connection quality. A red light indicates a weaker connection, which may result in lower speeds. Try a different outlet if possible.

- **Software Configuration Issues:**

- The configuration software (if used for security) may be complex. Refer to the resource CD for specific instructions.
- Note that the software might only detect the adapter directly connected to your computer, not all units in the network. This is normal behavior.

## 6. SPECIFICATIONS

Feature	Specification
Model Number	XE102US
Product Dimensions (WxHxD)	1.83 x 3.91 x 2.87 inches (approx. 3.92 x 1.84 x 2.88 inches)
Item Weight	7.9 ounces (224 Grams)
Data Transfer Rate	14 Megabits Per Second
Hardware Interface	Ethernet
Data Link Protocol	Ethernet
Compatible Devices	Printer, Computers, Gaming Consoles, Smart TVs
UPC	683728134648, 606449036794

## 7. WARRANTY & SUPPORT

The NETGEAR XE102 Wall-Plugged Ethernet Bridge is backed by a **3-year warranty**.

For further assistance, please refer to the following resources included with your product:

- **Installation Guide:** Provides step-by-step setup instructions.
- **Resource CD:** Contains additional software, drivers, and detailed documentation, including information on security setup.
- **Warranty/Support Information Card:** Details warranty terms and contact information for technical support.

You can also visit the official Netgear support website for the latest drivers, firmware, and troubleshooting guides.