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> [NBS](#) /

> [NBS NVG448BQ Wireless Gateway User Manual](#)

NBS NVG448BQ

NBS NVG448BQ Wireless Gateway User Manual

Model: NVG448BQ

1. PRODUCT OVERVIEW

The NBS NVG448BQ Wireless Gateway is a versatile residential gateway designed to provide robust video, high-speed data, and optional primary line telephony services. It supports VDSL/VDSL2/ADSL2 broadband networks and features 802.11ac Wi-Fi for concurrent dual-band wireless connectivity.

Key Features:

- Concurrent Wi-Fi: 802.11 b/g/n/ac for high-speed wireless connections.
- Four Gigabit Ethernet ports for reliable wired networking.
- Supports IPTV video services.
- Provides primary line VoIP telephone service.
- Dual-band support: 2.4 GHz (2x2 or 3x3 integrated omni-directional antenna) and 5 GHz (3x3 or 4x4).

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- NBS NVG448BQ Wireless Gateway
- Ethernet Cord
- Power Adapter

3. PHYSICAL OVERVIEW

Front Panel Indicators

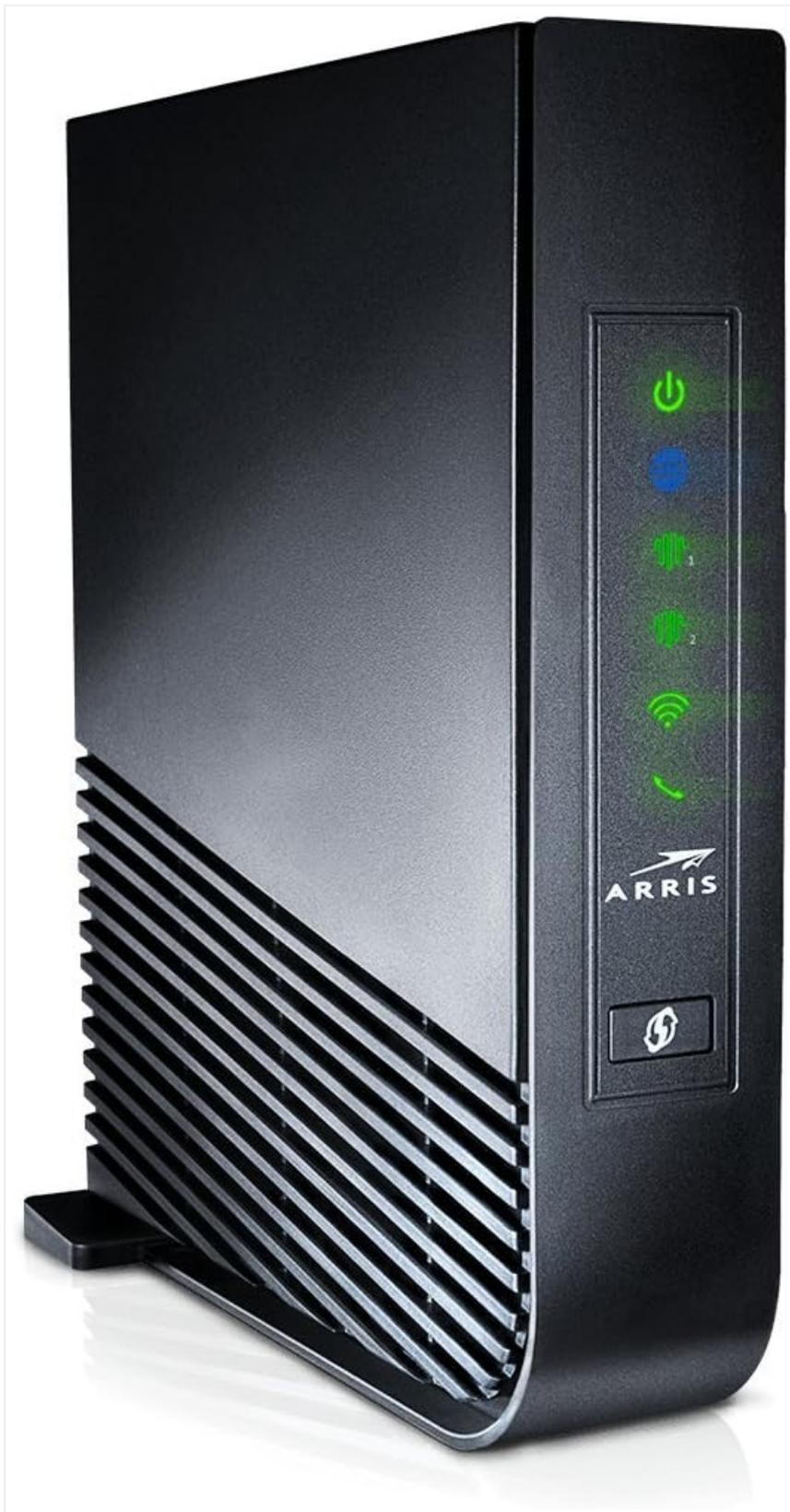


Figure 1: Front view of the NBS NVG448BQ Wireless Gateway. The front panel features LED indicators for Power, Broadband, Wi-Fi, and Voice status, providing a quick visual reference for device operation.

The front panel of the NVG448BQ features several LED indicators that provide information about the gateway's status:

- **Power LED:** Indicates if the device is powered on.
- **Broadband LED:** Shows the status of the DSL/ONT connection.
- **Wi-Fi LED:** Indicates wireless network activity.
- **Voice LED:** Shows the status of the VoIP telephone service.

Rear Panel Ports



Figure 2: Rear view of the NBS NVG448BQ Wireless Gateway, displaying the DSL, Ethernet (LAN), ONT, Phone Line, USB, and Power ports. These ports are essential for connecting the gateway to your internet service and local devices.

The rear panel provides all necessary connection ports:

- **DSL Port (Green):** Connects to your VDSL/ADSL line.
- **Ethernet Ports (Yellow, 1-4):** Connects to wired devices like computers or gaming consoles.
- **ONT Port (Red):** Connects to an Optical Network Terminal for fiber-optic services.
- **Phone Line Ports (1&2):** Connects to analog telephones for VoIP service.
- **USB Port:** For future use or connecting compatible devices.
- **ON/OFF Switch:** Powers the device on or off.
- **Power Port:** Connects to the included power adapter.
- **Reset Button:** Used to restore factory default settings (requires a paperclip or similar pointed object).

4. SETUP INSTRUCTIONS

Follow these steps to set up your NBS NVG448BQ Wireless Gateway:

4.1. Connecting the Gateway

1. **Power Connection:** Connect the power adapter to the Power port on the rear of the gateway and plug the other end into a power outlet. Press the ON/OFF switch to power on the device. The Power LED on the front panel should illuminate.
2. **Broadband Connection:**
 - **For DSL/VDSL/ADSL2+:** Connect a DSL cable from your wall jack to the green **DSL** port on the gateway.
 - **For Fiber (ONT Required):** Connect an Ethernet cable from your Optical Network Terminal (ONT) to the red **ONT** port on the gateway.

Wait for the Broadband LED on the front panel to turn solid, indicating a stable internet connection.

3. **Wired Devices (Optional):** Connect Ethernet cables from your computers, gaming consoles, or other wired network devices to any of the yellow **Ethernet Ports (1-4)** on the rear of the gateway.
4. **Telephone (Optional):** If using VoIP service, connect your analog telephone(s) to the **Phone Line 1&2** ports.

4.2. Initial Configuration

Once the gateway is connected and the Broadband LED is solid, you can access the web-based management interface for further configuration:

1. Open a web browser on a computer connected to the gateway (either via Ethernet or Wi-Fi).
2. In the address bar, type the default IP address (e.g., 192.168.1.254 or 192.168.1.1) and press Enter. Refer to the label on your device for the exact default IP address and login credentials.
3. Enter the default username and password when prompted. It is highly recommended to change the default password for security reasons.

4. Follow the on-screen instructions to complete the initial setup, including Wi-Fi network name (SSID) and password configuration.

5. OPERATING INSTRUCTIONS

5.1. Connecting to Wi-Fi

To connect your wireless devices to the NVG448BQ's Wi-Fi network:

1. Locate the Wi-Fi network name (SSID) and password on the label attached to your gateway.
2. On your wireless device (smartphone, tablet, laptop), open the Wi-Fi settings.
3. Select the SSID of your NVG448BQ gateway from the list of available networks.
4. Enter the Wi-Fi password (WPA/WPA2 key) when prompted.
5. Your device should now be connected to the internet via Wi-Fi.

5.2. Using VoIP Telephone Service

If your service plan includes VoIP, ensure your analog phone is connected to one of the Phone Line ports. The Voice LED on the front panel should be active. You can then use your phone as normal.

5.3. Accessing the Web Management Interface

For advanced settings, such as port forwarding, parental controls, or Wi-Fi channel adjustments, access the web management interface using the IP address and credentials mentioned in the "Initial Configuration" section.

6. MAINTENANCE

6.1. Firmware Updates

Firmware updates are typically managed by your Internet Service Provider (ISP). Do not attempt to manually update firmware unless instructed by your ISP, as incorrect updates can damage the device.

6.2. Resetting the Gateway

To restore the gateway to its factory default settings:

1. With the gateway powered on, locate the **Reset** button on the rear panel.
2. Use a paperclip or a similar pointed object to press and hold the Reset button for approximately 10-15 seconds.
3. Release the button. The gateway will restart, and all settings will revert to factory defaults. You will need to reconfigure your internet and Wi-Fi settings.

6.3. Cleaning

Wipe the exterior of the gateway with a soft, dry cloth. Do not use liquid cleaners or aerosols, and ensure the device is powered off before cleaning.

7. TROUBLESHOOTING

7.1. LED Indicator Meanings

LED	Status	Description
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LED	Status	Description
Power	Solid Green	Gateway is powered on and operating normally.
Power	Off	Gateway is powered off or not receiving power.
Broadband	Solid Green	Stable internet connection established.
Broadband	Flashing Green	Attempting to establish internet connection.
Broadband	Off	No internet connection detected. Check cable connections.
Wi-Fi	Solid Green	Wi-Fi is active.
Wi-Fi	Flashing Green	Wi-Fi activity (data transmission).
Wi-Fi	Off	Wi-Fi is disabled.
Voice	Solid Green	VoIP service is active.
Voice	Off	VoIP service is inactive or not configured.

7.2. Common Issues and Solutions

- **No Internet Connection:**

- Check if the Broadband LED is solid green. If not, verify all cables are securely connected to the DSL/ONT port and the wall jack/ONT.
- Restart the gateway by unplugging the power adapter for 30 seconds and then plugging it back in.
- Contact your Internet Service Provider (ISP) to confirm service status.

- **Wi-Fi Not Connecting or Slow:**

- Ensure the Wi-Fi LED is solid green.
- Verify you are using the correct Wi-Fi network name (SSID) and password.
- Move closer to the gateway to improve signal strength.
- Restart the gateway.
- Consider changing Wi-Fi channels in the web management interface to avoid interference.

- **VoIP Phone Not Working:**

- Check if the Voice LED is solid green.
- Ensure the phone is correctly connected to the Phone Line port.
- Verify your service plan includes VoIP.

8. SPECIFICATIONS

Feature	Detail
Model Name	NVG448BQ
Brand	NBS
Connectivity Technology	Wi-Fi

Feature	Detail
Wireless Communication Standard	802.11ac
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Ethernet Ports	4 x Gigabit Ethernet
Special Feature	WPS (Wi-Fi Protected Setup)
Compatible Devices	Personal Computer
Recommended Uses	Home
Color	Black
Item Weight	2 pounds
Package Dimensions	15.24 x 8.03 x 2.28 inches

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided by your Internet Service Provider (ISP) or contact NBS directly. Warranty terms may vary depending on your region and purchase agreement.

It is recommended to keep your purchase receipt and product serial number readily available when contacting support.