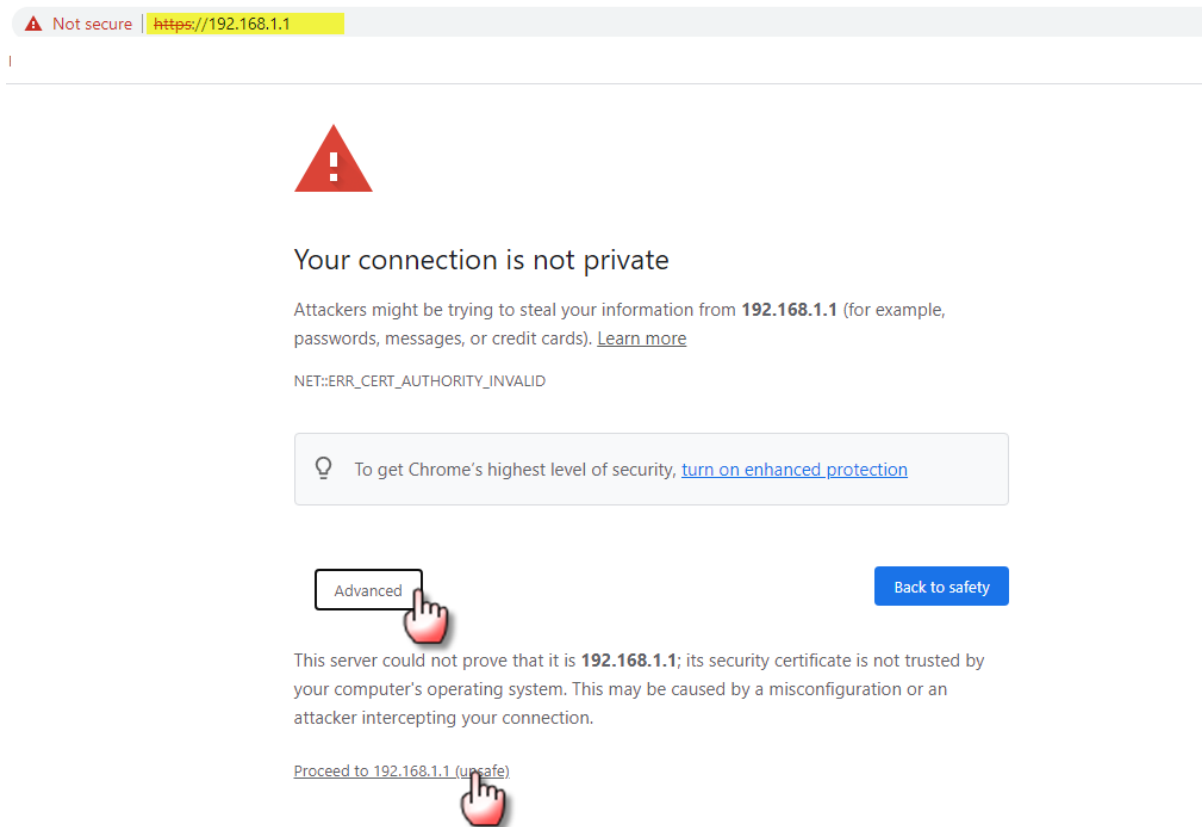


WIFIX NEX5GO ROUTER – USER MANUAL

This User Manual provides the basics for configuring the Wi-Fi NEXR5GO router with the Wi-Fi firmware.

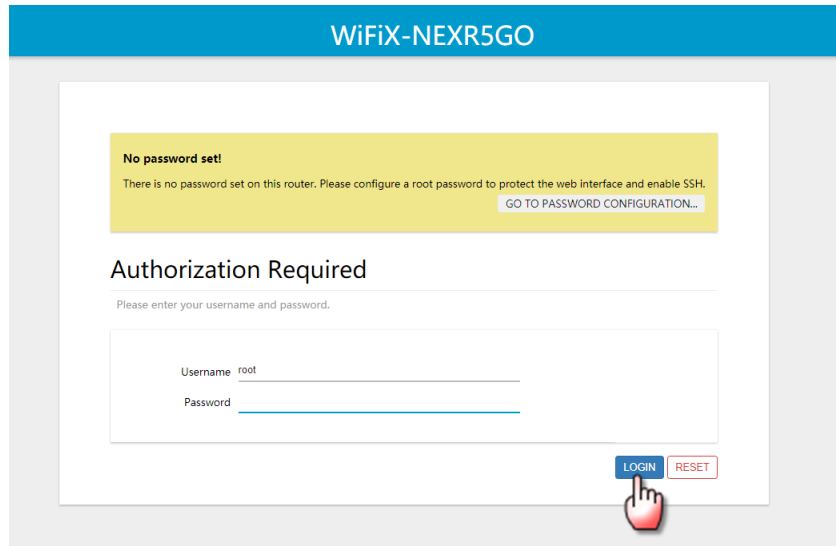
In order to obtain the best results, avoid using Wi-Fi to setup the router since you cannot make changes to the Wi-Fi while logged into the router via its Wi-Fi. Equally important, *NEVER* use the Wi-Fi when updating a router's firmware.

1. Connect an Ethernet cable from one of the router's "LAN" ports to the network port on a PC (or Laptop).
2. Plug the 12 Volt power adapter into the electrical wall socket and insert the power connector into the router. The router will then begin its initial powering up process which, on first power up, may take a minute or two to complete. Left Clicking the Network/Wi-Fi Icon on the PC's lower (right hand) tool bar will show the completion of the initiation process when it changes from "Identifying..." to "Connected".
3. Open a web browser and type in the routers IP address of **192.168.1.1** and hit enter. Our Wi-Fi firmware includes WireGuard (VPN) which requires https as opposed http. Therefore, a non private warning may be displayed since the router produces a "self-signed" https security certificate which is completely normal and safe. Different web browsers may display this warning a little differently. In Google Chrome, click on the **Advanced** button and click on the **Proceed to 192.168.1.1**



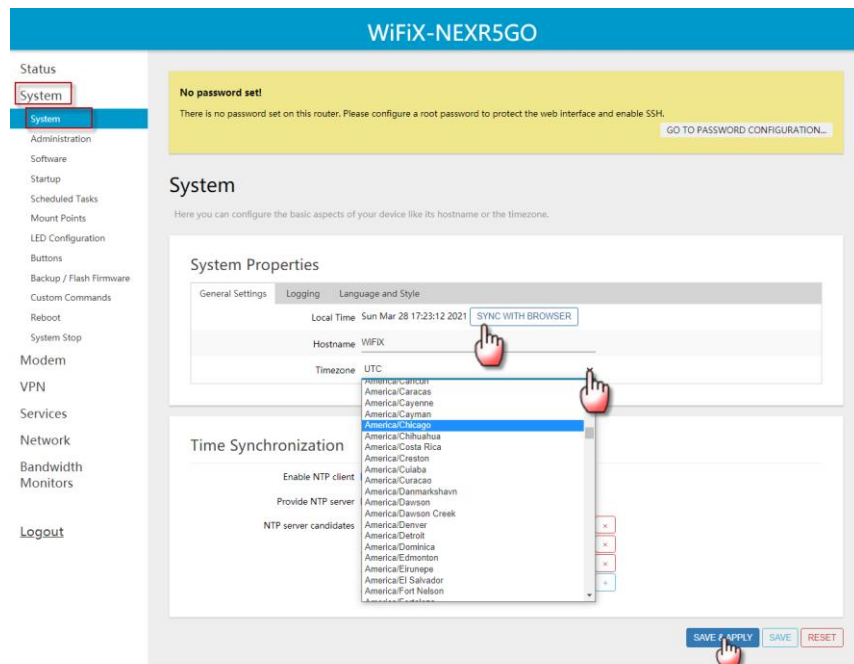
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- The login console should now appear with the user name of “root”. There is no password set on a new router and/or fresh install of WiFiX firmware so it should be left blank. Click the **LOGIN** button:



The screenshot shows the Wi-FiX-NEX5GO login interface. At the top, a blue header bar contains the text "Wi-FiX-NEX5GO". Below this, a yellow warning box states "No password set!" and provides instructions to configure a root password. The main section is titled "Authorization Required" and prompts the user to enter a username and password. The username field is pre-filled with "root", and the password field is empty. At the bottom right, there are "LOGIN" and "RESET" buttons. A red hand icon is pointing at the "LOGIN" button.

- Once logged into the router, the Local Time and Time Zone needs to be set. Go to **SYSTEM > SYSTEM** and click on **SYNC WITH BROWSER**. Next, select the proper **Time Zone** from the drop down list then **SAVE & APPLY** (which must **ALWAYS** be done for **ANY** change to a firmware configuration to take effect).



The screenshot shows the Wi-FiX-NEX5GO System configuration interface. On the left, a sidebar menu lists various system settings, with "System" highlighted. The main content area is titled "System" and contains a "System Properties" section. This section includes fields for "Local Time" (Sun Mar 28 17:23:12 2021), "Hostname" (WIFIX), and "Timezone" (UTC). A "SYNC WITH BROWSER" button is next to the "Local Time" field. Below the "Timezone" field, a dropdown menu is open, showing a list of time zones. A red hand icon is pointing at the "SYNC WITH BROWSER" button, and another red hand icon is pointing at the "America/Chicago" option in the dropdown menu. At the bottom right, there are "SAVE & APPLY", "SAVE", and "RESET" buttons. A red hand icon is pointing at the "SAVE & APPLY" button.

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6. Next, go to **SYSTEM > ADMINISTRATION > ROUTER PASSWORD** and enter your password that is required to access the router's login console. Then, **SAVE & APPLY**:

The screenshot shows the 'Router Password' configuration page. On the left sidebar, 'System' and 'Administration' are highlighted. The main content area has a yellow banner stating 'No password set!' with a link to 'GO TO PASSWORD CONFIGURATION...'. Below this, the 'Router Password' section has two input fields: 'Password' and 'Confirmation', both with dropdown arrows. The 'SSH Access' section below it has a 'SSH-Keys' area with a text box for pasting keys. At the bottom right, there are three buttons: 'SAVE & APPLY', 'SAVE', and 'RESET'. A hand icon is pointing at the 'SAVE & APPLY' button.

7. To modify the WiFi settings go to **NETWORK > WIRELESS** select the **EDIT** button on the WiFi interface (2.4GHz and/or 5GHz) to be modified. This will allow changing the WiFi name (ESSID) and/or WiFi password.

The screenshot shows the 'Wireless Overview' page. On the left sidebar, 'Network' and 'Wireless' are highlighted. The main content area shows a table of wireless interfaces. The first two rows are for 'radio0' and 'radio1', both in 'Master' mode. The third row is for 'radio0' in 'Client' mode, with a note 'Wireless is disabled'. Each row has buttons for 'RESTART', 'SCAN', 'ADD', 'DISABLE', 'EDIT', and 'REMOVE'. A hand icon is pointing at the 'EDIT' button for the first 'radio0' entry. Below the table is the 'Associated Stations' section, which is currently empty with the text 'No information available'.

Network	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
No information available				

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8. On the lower screen **GENERAL SETUP** tab, modify the WiFi broadcasting name to whatever name is desired:

Wi-FiX-NEX5GO

Status
System
Modem
VPN
Services
Network
Interfaces
Wireless
Switch
Guest WiFi
DHCP and DNS
Hostnames
Static Routes
DNSmasq IP-Set
Diagnostics
Firewall
SQM QoS
Load Balancing
Bandwidth
Monitors
Logout

Wireless Network: Master "Wi-FiX" (wlan0)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the Interface Configuration.

Device Configuration

General Setup Advanced Settings

Status **Mode: Master | SSID: Wi-FiX**
BSSID: C8EEA60A9421
Encryption: WPA PSK (CCMP)
Channel: 36 (5.180 GHz)
Tx Power: 23 dBm
Signal: 0 dBm | Noise: 0 dBm
Bitrate: 0.0 Mbit/s | Country: US

Wireless network is enabled **DISABLE**

Mode Channel Width
Operating frequency AC 36 (5180 MHz) 80 MHz
Transmit Power auto
dBm

Interface Configuration

General Setup **Wireless Security** MAC-Filter Advanced Settings

Mode Access Point
SSID: Wi-FiX

Network lan: [icon] [icon] [icon] [icon]
Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.

Hide SSID ☐
WMM Mode ☒

BACK TO OVERVIEW SAVE & APPLY SAVE RESET

9. Click on the **WIRELESS SECURITY** tab and enter the password (Key) to access the WiFi. Clicking on the icon next to the Key will display the password that was entered. Once completed with all setting, click **SAVE & APPLY**

Wi-FiX-NEX5GO

radio1: Client "No Connection" radio1: Master "Wi-FiX" radio0: Master "Wi-FiX"

Status
System
Modem
VPN
Services
Network
Wireless
Switch
Guest WiFi
DHCP and DNS
Hostnames
Static Routes
DNSmasq IP-Set
Diagnostics
Firewall
SQM QoS
Load Balancing
Bandwidth
Monitors
Logout

Wireless Network: Master "Wi-FiX" (wlan0)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the Interface Configuration.

Device Configuration

General Setup Advanced Settings

Status **Mode: Master | SSID: Wi-FiX**
BSSID: C8EEA60A9421
Encryption: WPA PSK (CCMP)
Channel: 36 (5.180 GHz)
Tx Power: 23 dBm
Signal: 0 dBm | Noise: -107 dBm
Bitrate: 0.0 Mbit/s | Country: US

Wireless network is enabled **DISABLE**

Mode Channel Width
Operating frequency AC 36 (5180 MHz) 80 MHz
Transmit Power auto
dBm

Interface Configuration

General Setup **Wireless Security** MAC-Filter Advanced Settings

Encryption WPA-PSK
Cipher auto
Key: 12345678

802.11r Fast Transition ☐
Enables fast roaming among access points that belong to the same Mobility Domain

BACK TO OVERVIEW SAVE & APPLY SAVE RESET

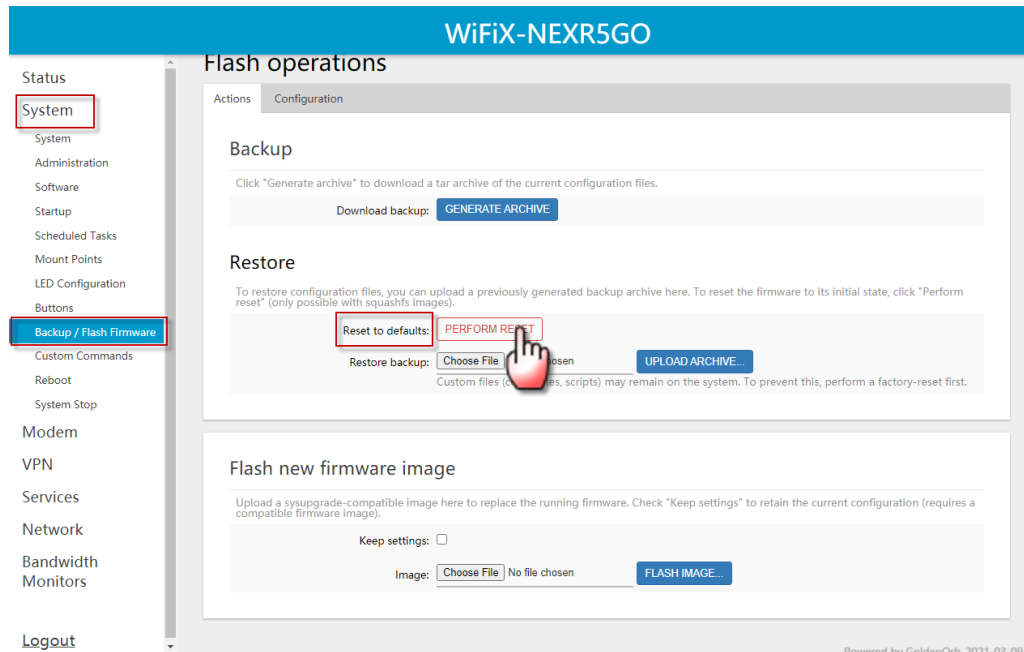
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10. The above steps are for a general setup of the WiFi. The WiFi Mode, Channels, Width and Power may be manually configured from its default settings. This includes the ability to lock the WiFi to a specifically channel or, by using the Auto channel selection option.
11. To lock the WiFi to a specific Channel, Go to **NETWORK > WIRELESS > DEVICE CONFIGURATION > GENERAL SETUP**, and select the preferred Channel from the drop-down list. Then, **SAVE & APPLY**.

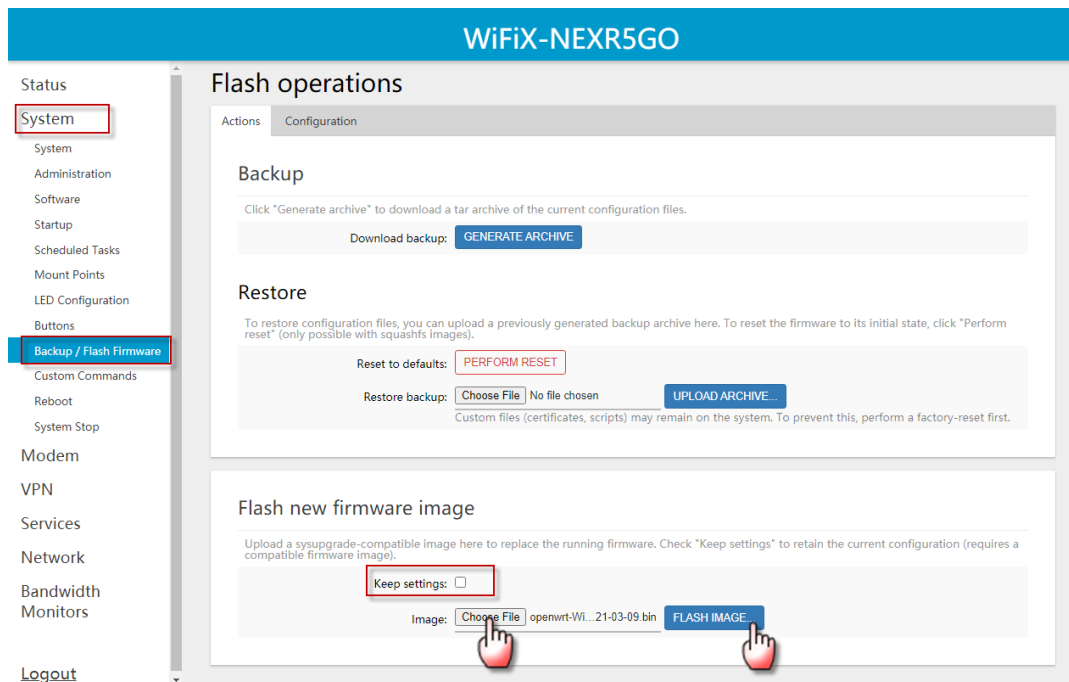
The screenshot displays the router's web interface. On the left is a sidebar menu with options: Status, System, Modem, VPN, Services, **Network** (highlighted), Interfaces, **Wireless** (highlighted), Switch, Guest Wifi, DHCP and DNS, Hostnames, Static Routes, DNSMasq IP-Set, Diagnostics, Firewall, SQM QoS, Load Balancing, Bandwidth Monitors, and Logout. The main content area is titled "Wi-FiX-NEXR5GO" and "Wireless Network: Master 'Wi-FiX' (wlan0)". Below this is a note about device configuration. The "Device Configuration" section has two tabs: "General Setup" (selected) and "Advanced Settings". In the "General Setup" tab, the "Wireless network is enabled" status is shown with a "DISABLE" button. Below this, there are settings for Mode (AC), Channel (36 (5180 MHz)), Width (80 MHz), Operating frequency, and Transmit Power (auto). A dropdown menu for the Channel is open, showing options: auto, 36 (5180 MHz), 40 (5200 MHz), 44 (5220 MHz), and 48 (5240 MHz). A hand cursor is pointing at the "36 (5180 MHz)" option. At the bottom right, there are three buttons: "SAVE & APPLY" (highlighted with a hand cursor), "SAVE", and "RESET".

12. Repeat Steps 8 through 11 to EDIT the other WiFi Interface as shown in Step 7.
13. After all of the settings are configured, we recommend rebooting the router. Allow the router a few minutes to boot up, stabilize and apply its new configurations.
14. One of the router's features is the ability to Reset the Firmware to its default settings. This is useful if some of the changes adversely affected the router's functionality or performance. This reset returns the firmware to its original (default) configuration and removes the password, WiFi and others settings.
15. Go to **SYSTEM > BACKUP / FLASH FIRMWARE > RESTORE < RESET TO DEFAULTS** and click **PERFORM RESET**:

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16. If ever the occasion the Wi-FiX firmware becomes unstable or corrupt, reloading the Wi-FiX firmware may be recommended. Go to **SYSTEM > BACKUP / FLASH FIRMWARE** and **CHOOSE FILE** to the firmware's location downloaded to PC and **FLASH IMAGE**. **MAKE SURE** the Keep Settings box is **UNCHECKED**:



FCC Caution:

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits 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 equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.