




To enable “bridge mode” on an AT&T modem, you will need to disable the Wi-Fi radios and turn on IP Passthrough.

**To Enable IP Passthrough on an AT&T Modem:**

1. Open a web browser and connect to the AT&T Modem (Likely at <https://192.168.1.254>)
2. Go to the “firewall” tab, then select “IP Passthrough”

A screenshot of the AT&amp;T modem web interface. At the top left is the AT&amp;T logo. Below it is a navigation bar with tabs: Device, Broadband, Home Network, Voice, Firewall (selected), and Diagnostics. Under the Firewall tab, there are sub-tabs: Status, Packet Filter, NAT/Gaming, Public Subnet Hosts, IP Passthrough (selected), Firewall Advanced, and Security Options. The main content area shows the "Firewall Status" page. It contains a table with the following items: Packet Filter (On), IP Passthrough (On), NAT Default Server (Off), and Firewall Advanced (On). To the right of this table is a "Help" box that says: "This page shows the current status of items you can configure using the Firewall menu." At the bottom of the page, there is a copyright notice: "© 2016-2023 AT&amp;T Intellectual Property. All rights reserved. AT&amp;T and Globe logo are registered trademarks of AT&amp;T Intellectual Property. © 2016 ARRIS Enterprises LLC. All rights reserved. ARRIS is a registered trademark of ARRIS Enterprises LLC." and a "Site Map" link.

3. If prompted for the “Access code”, enter the code found on the modem sticker
  - a. Note - Take a picture of the stick with the access code and post to the client slack for future reference



### Access Code Required


The page you requested is protected. You must enter the Device Access Code in order to continue.

The Default Access Code is printed on the side or bottom of your BGW320-505 device, but you can change it.

Device Access Code

[Forgot your Access Code?](#)

[Continue](#)



Access Code Printed Here

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[Site Map](#)

4. Change the following settings to enable:
  - a. Allocation Mode: Passthrough
  - b. Passthrough Mode: DHCP-fixed
  - c. Passthrough Fixed Mac Address: (select the LAN IP address the UDM was provided)
  - d. Passthrough DHCP Lease: 1 day

DeviceBroadbandHome NetworkVoiceFirewallDiagnostics

StatusPacket FilterNAT/GamingPublic Subnet HostsIP PassthroughFirewall AdvancedSecurity Options

## IP Passthrough

Making a change to some pulldowns on this page will automatically change the context below it, enabling you to fill only the appropriate fields for the change you have made.

Allocation ModePassthrough

Default Server Internal Address

e.g. 192.168.1.1

Passthrough ModeDHCPs-fixed

Passthrough Fixed MAC Address

Choose from list

Manual Entry

9c:05:d6:32:e6:ad

e.g. 00:01:02:03:04:05

Passthrough DHCP Lease

Days:1Hours:0Minutes:10Seconds:0

e.g. 00:00:10:00

SaveCancel

### Help

#### Allocation Mode:

- Off:** The default server and IP Passthrough features are both disabled.
- Default Server:** Allows the device to forward all externally initiated IP traffic (TCP and UDP protocols only) to a default host on the LAN. You might need this if you cannot anticipate what port number or packet protocol an in-bound application might use. For example, some network games select arbitrary port numbers when a connection is opened. Or you might want all unsolicited traffic to go to a specific LAN host.
- Passthrough:** Allows the device's public IP address to be assigned to a single LAN client. There may be situations where Passthrough is not allowed.

**Default Server Internal Address:** The IP Address of the device to receive the unexpected or unknown traffic. Format must be nnn.nnn.nnn.nnn.

**Passthrough Mode:** The method in which the WAN IP address will be assigned to the selected LAN client.

- DHCPs-dynamic:** The WAN IP address will be handed out by the device's DHCP server to the first LAN client that requests a DHCP lease. It may be helpful, after the device has obtained a WAN IP address, to cycle the desired LAN client's interface or reboot it. On disabling this feature, you should reboot the LAN client.
- DHCPs-fixed:** The WAN IP address will be handed out by the device's DHCP server to the LAN client whose MAC address has been specified. It may be helpful, after the device has obtained a WAN IP address, to cycle the LAN client's interface or reboot it. On disabling this feature, you should reboot the LAN client.
- Manual:** A LAN client must be manually configured with the device's assigned WAN IP address and gateway information.

**Passthrough Fixed MAC Address:** When Passthrough Mode is DHCPs-fixed, this is the MAC of the selected LAN client. The Manual Entry must be in xx:xx:xx:xx:xx:xx (hexadecimal) format.

**Passthrough DHCP Lease:** When Passthrough Mode is DHCPs, this is the duration of the lease that will be handed out by the device to the LAN

(example of settings page)

# ONE-TOUCH Automation

**AT&T**

**Device** **Broadband** **Home Network** **Voice** **Firewall** **Diagnostics**

**Status** **Packet Filter** **NAT/Gaming** **Public Subnet Hosts** **IP Passthrough** **Firewall Advanced** **Security Options**

### IP Passthrough

Making a change to some pulldowns on this page will automatically change the context below it, enabling you to fill only the appropriate fields for the change you have made.

**Allocation Mode** Passthrough

**Default Server Internal Address**  e.g. 192.168.1.1

**Passthrough Mode** DHCPs-fixed

**Passthrough Fixed MAC Address**

**Passthrough DHCP Lease**

**Device List** **Manual Entry**

✓ Choose from list

passthrough/9c:05:d6:32:e6:ad

192.168.1.11/50:eb:f6:78:04:05

192.168.1.64/f6:22:2d:73:0d:2f

192.168.1.66/8e:ca:1a:76:39:90

unknown8eca1a763990/8e:ca:1a:76:39:90

**Help**

**Allocation Mode:**

- Off:** The default server and IP Passthrough features are both disabled.
- Default Server:** Allows the device to forward all externally initiated IP traffic (TCP and UDP protocols only) to a default host on the LAN. You might need this if you cannot anticipate what port number or packet protocol an in-bound application might use. For example, some network games select arbitrary port numbers when a connection is opened. Or you might want all unsolicited traffic to go to a specific LAN host.
- Passthrough:** Allows the device's public IP address to be assigned to a single LAN client. There may be situations where Passthrough is not allowed.

**Default Server Internal Address:** The IP Address of the device to receive the unexpected or unknown traffic. Format must be nnn.nnn.nnn.nnn.

**Passthrough Mode:** The method in which the WAN IP address will be assigned to the selected LAN client.

- DHCPs-dynamic:** The WAN IP address will be handed out by the device's DHCP server to the first LAN client that requests a DHCP lease. It may be helpful, after the device has obtained a WAN IP address, to cycle the desired LAN client's interface or reboot it. On disabling this feature, you should reboot the LAN client.
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- Manual:** A LAN client must be manually configured with the device's assigned WAN IP address and gateway information.

**Passthrough Fixed MAC Address:** When Passthrough Mode is DHCPs-fixed, this is the MAC of the selected LAN client. The Manual Entry must be in xx:xx:xx:xx:xx:xx (hexadecimal) format.

**Passthrough DHCP Lease:** When Passthrough Mode is DHCPs, this is the duration of the lease that will be handed out by the device to the LAN

(selecting the UDM from the device list)

- Press Save.
- Give the modem a minute to process. If the UDM still doesn't have the WAN IP, reboot the modem.



## To disable the Wi-Fi radios on an AT&T Modem:

1. Open a web browser and connect to the AT&T Modem (Likely at <https://192.168.1.254>)
2. Go to the "Home Network" tab, then select "Wi-Fi"

Device	Broadband	Home Network	Voice	Firewall	Diagnostics
Status	Configure	IPv6	Wi-Fi	MAC Filtering	Subnets & DHCP
IP Allocation					

### Wi-Fi

Making a change to some pull downs on this page will automatically change the context below it, enabling you to fill only the appropriate fields for the change you have made.

To configure options not displayed, or which can't be edited, on this page, click on the "Advanced Options" link below.

Advanced Options

Hide or Show Password

#### Home SSID

Home SSID Enable	<input type="button" value="Off"/>	Default: On
Network Name (SSID)	<input type="text" value="ATTfQcWvWa"/>	Default: ATTfQcWvWa
Security	<input type="button" value="Default Password"/>	Default: Default Password
Password	<input type="text" value="m8aibhb8zmrc"/>	Default: m8aibhb8zmrc

#### WPS Virtual Pushbutton

Click the pushbutton below associated with the Home SSID, then follow the Wi-Fi client instructions.

#### WPS PIN

Enter the Wi-Fi Client's all digit PIN, Submit, then follow the Wi-Fi client instructions.

WPS PIN

#### Guest SSID

Guest SSID Enable	<input type="button" value="Off"/>	Default: Off
Network Access	<input type="button" value="Internet Only"/>	Default: Internet Only
Guest SSID Subnet	<input type="text" value="192.168.1.0/24"/>	Default: 192.168.1.0/24
Guest Network Name	<input type="text" value="ATTfQcWvWa_Guest"/>	Default: ATTfQcWvWa_Guest
Password	<input type="text"/>	

#### 2.4 GHz Wi-Fi Channel Selection

#### Smart Home Manager

Control your home network from one easy-to-use app.

#### Help

**Hide or Show Passwords:** This button allow you to hide or display the Wi-Fi passwords on this and other pages. This setting also controls the display or hiding of the Device Access Code.

**SSID Enable:** The Home and Guest SSIDs can be enabled and disabled independently. Disabling the Home SSID can be done using the "Advanced Options" link.

**Network Name (SSID):** When a Wi-Fi client searches for available networks, choosing this name will mean choosing this device for the Wi-Fi access point.

**Home/Guest SSID:** A Wi-Fi client connected to a Home SSID may be able to communicate with other devices on that SSID and elsewhere on the LAN, as well as connect to the Internet. A Wi-Fi client connected to a Guest SSID can connect to the Internet, but whether or not it can communicate with other devices depends on the Network Access setting.

**Network Access:** When set to 'Internet Only', Wi-Fi clients on the Guest SSID will have Internet access, but will not be able to contact any other LAN hosts, including the BGW320-505 device. When set to 'Internet & Home LAN', the Guest SSID behaves in a similar fashion to the Home SSID.

**Guest SSID Subnet:** If Network Access is Internet Only (isolated), the Guest SSID Subnet indicates which subnet will be used for handing out DHCP leases to Wi-Fi clients connecting to this SSID. The default is to use the existing LAN subnet, but a separate subnet just for Guest clients can be used.

**Security:** Choose security to select which type of Wi-Fi password to use. Your device and each client must be using the same password. For the Guest SSID, you must enter a password.

- **Default Password:** This device uses the factory installed default password unique to this device.
- **Custom password:** This device uses a password that you enter. The password (security key) can be 8-63 characters. At least 20 characters are recommended for best security. To enter a hex WPA password, enter a 64 character hex password preceded with 0x.

**Wi-Fi Protected Setup:** This device supports the



3. Select the "Advanced Options" link
4. If prompted, enter the device access code
5. Go to 2.4 Ghz Wi-Fi configuration
  - a. Wifi Operation: Change to "Off"

**2.4 GHz Wi-Fi Configuration**

Wi-Fi Operation	<input type="button" value="Off"/>	Default: On
Mode	<input type="button" value="B/G/N"/>	Default: G/N
Bandwidth	<input type="button" value="20MHz"/>	Default: 20MHz
Channel	<input type="button" value="Automatic"/>	Default: Automatic
Channel Scan	<input type="button" value="Find Best Channel"/>	
Power Level (in %)	<input type="text" value="100"/>	Default: 100

Home SSID

**Wi-Fi Band Selection:** Your device is designed to operate on two Wi-Fi frequency bands (2.4 GHz and 5 GHz). You should configure parameters for each band, under each separate section, and then select Save to apply the changes. The 5 GHz band provides improved speed, but not all Wi-Fi clients support this band. If a client doesn't support it, it cannot see the 5 GHz Network SSID.

**Wi-Fi Operation:** This is enabled by default. Turning it off will disable all Wi-Fi services for the associated band.

**Mode:** This option allows you to restrict the device to respond only to Wi-Fi LAN devices using the specified protocols. Do not change this setting.

6. Go to 5 Ghz Wi-Fi configuration
  - a. Wifi Operation: Change to "Off"

**5 GHz Wi-Fi Configuration**

Wi-Fi Operation	<input type="button" value="Off"/>	Default: On
Mode	<input type="button" value="N/AC/AX"/>	Default: N/AC/AX
Bandwidth	<input type="button" value="80MHz"/>	Default: 80MHz
Channel Scan	<input type="button" value="Find Best Channel"/>	
Power Level (in %)	<input type="text" value="100"/>	Default: 100

"Internet & Home LAN", the Guest SSID behaves in a similar fashion to the Home SSID.

**Guest SSID Subnet:** If Network Access is Internet Only (isolated), the Guest SSID Subnet indicates which subnet will be used for handing out DHCP leases to Wi-Fi clients connecting to this SSID. The default is to use the existing LAN subnet, but a separate subnet just for Guest clients can be used.

**Network Name (SSID):** When a Wi-Fi client searches for available networks choosing this name will mean choosing this device for the Wi-Fi access point.

7. At the bottom of the page, click "Save"

**WPS Virtual Pushbutton**

Click the pushbutton below, associated with the Home SSID, then follow the Wi-Fi client instructions.

**WPS PIN**

Enter the Wi-Fi Client's all digit PIN, Submit, then follow the Wi-Fi client instructions.

WPS PIN

The buttons below apply any Wi-Fi changes made above. Clients currently connected on each radio may be affected.

**WPA Version:** This field allows you to select the WPA version(s) that will be required for client connections. Select "WPA-2 and WPA-3" for maximum interoperability.

**Wi-Fi Protected Setup:** This device supports the use of Wi-Fi Protected Setup (WPS). WPS provides a convenient way to add advanced secure Wi-Fi connections for multiple Wi-Fi certified WPS devices to your network. Older clients can continue to connect using the original security setting. WPS clients can connect and learn the security setting using the hardware pushbutton or PIN. The client machine(s) to be added should be powered on and their Wi-Fi interfaces operational.

**Maximum Clients:** Each enabled SSID has a maximum number of clients it will allow to connect concurrently. The total maximum of clients for the 2.4 GHz band is 90. The 5 GHz band supports up to 96 total clients. **WPS Virtual Pushbutton:** Click the