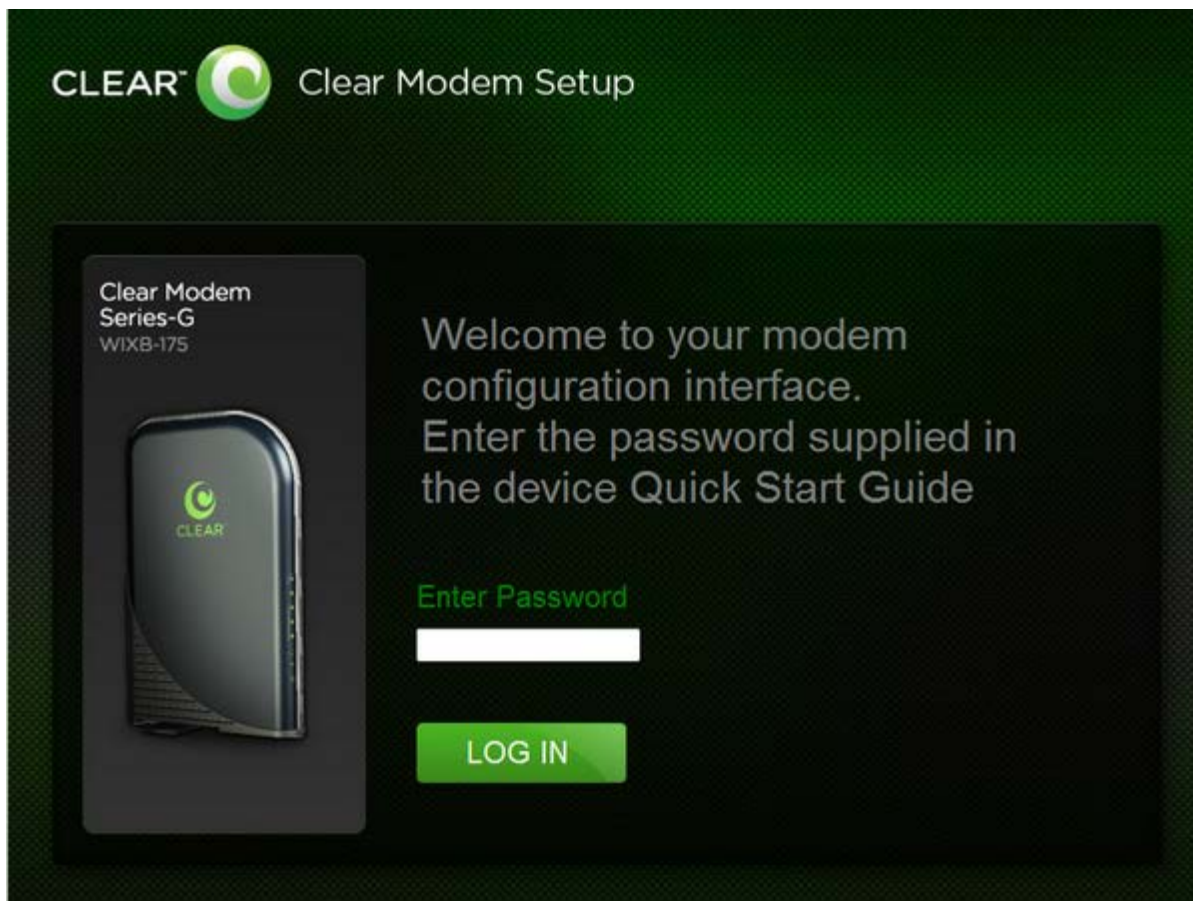


Before you Start!

- Port forwarding works best when using Apple Safari, Microsoft Internet Explorer 8, or Mozilla Firefox.
 - Note: Google Chrome and Microsoft Internet Explorer 9 have been identified to have problems completing port forwarding.
- Please be aware that if any settings are changed outside of the directions outlined below and it renders the modem non-functional, you may be required to purchase another device at full retail price plus any other associated costs (exchange fees, shipping costs, taxes, etc.).
- Complete all necessary tasks that require an Internet connection. This includes any calls made using a VoIP service (phone service that requires Internet connection). This is because there are several steps in the process which may require a reboot of the modem, which will in turn either disconnect a phone call or interrupt Internet connectivity.
- Please note that by default the ability to login to the modem across the internet from a remote location is disabled.

How to set-up Port Forwarding

1. Open an internet browser and browse to the web address 192.168.15.1. The password is CLEAR123 (all capital).



2. The modem will default to the "Status" page when the user interface opens.

Home

Device Status

Basic

Advanced

Clear Modem
Series-G
WIXB-175



Signal Meter



Welcome to Your CLEAR device
configuration set up.

Current Device Settings:

Device Software Version
WiMAX MAC ID 00
CINR 35 dB
WAN IP Address
Firewall ON/OFF ON
Device Up Time 0days,0hours,2minutes
Port Forwarding ON/OFF OFF

Logout Reboot Reconnect

3. Select the "Advanced" tab at the top right of the user interface.

Home

Device Status

Basic

Advanced

Firewall

Internet Protocol

Dynamic DNS

Port Forwarding

Local Address

Update Check

Firewalls authorize Internet access to your home network. Please leave the default values for Firewall settings unless you know other values are correct for your preferences.

Operation Mode Gateway Mode

Enable Firewall

Enable Web Login from Internet

Web Login Port from Internet

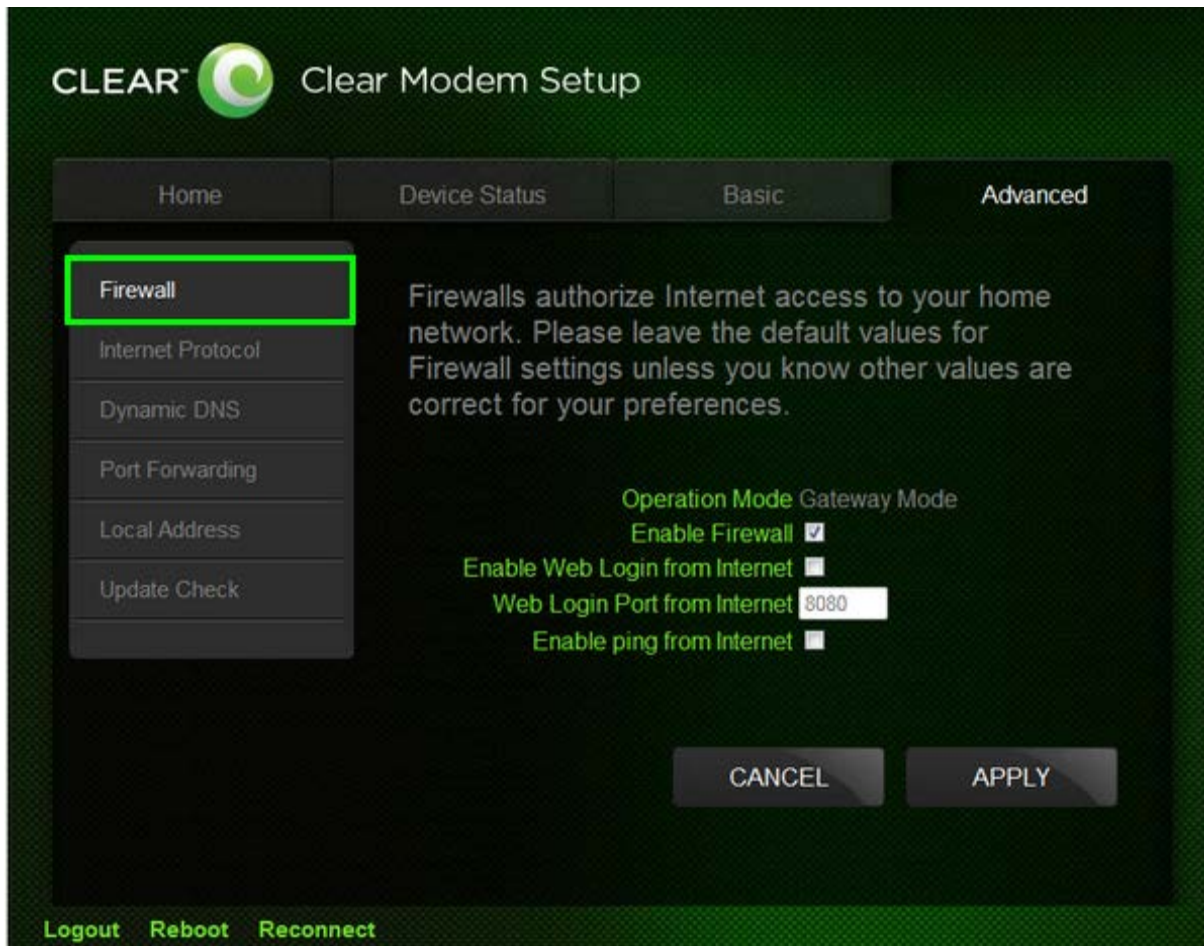
Enable ping from Internet

CANCEL

APPLY

Logout Reboot Reconnect

4. Select the "Firewall" tab on the left side of the user interface.



5. Uncheck the "Enable Firewall" checkbox and check the "Enable ping from Internet" checkbox, then select Apply.
 - a. IMPORTANT: If you only need port forwarding for a gaming console or you do not need to be able to connect to devices behind the CLEAR modem remotely, the "Enable ping from internet" checkbox does not need to be selected.

Home

Device Status

Basic

Advanced

Firewall

Internet Protocol

Dynamic DNS

Port Forwarding

Local Address

Update Check

Firewalls authorize Internet access to your home network. Please leave the default values for Firewall settings unless you know other values are correct for your preferences.

Operation Mode Gateway Mode

Enable Firewall

Enable Web Login from Internet

Web Login Port from Internet

Enable ping from Internet

CANCEL

APPLY

Logout Reboot Reconnect

6. Select the "Local Address" tab on the left side of the user interface.

Home

Device Status

Basic

Advanced

Firewall

Internet Protocol

Dynamic DNS

Port Forwarding

Local Address

DHCP Server

Lease Status

Lease Reservation

Update Check

Enables Dynamic Host Configuration Protocol (DHCP) Server functionality on the LAN allowing the modem to dynamically assign IP addresses to clients that connect to it from the local network

Enable DHCP Server

DHCP Server IP Address 192 168 15 1

DHCP Starting IP Address 192 168 15 2

DHCP Ending IP Address 192 168 15 254

DHCP Lease Time 1 hour 0 minute 0 second

CANCEL

APPLY

Logout Reboot Reconnect

7. Select the "Lease Status" sub-tab under the "Local Address" tab on the left side of the user interface.

Home

Device Status

Basic

Advanced

Firewall

Internet Protocol

Dynamic DNS

Port Forwarding

Local Address

DHCP Server

Lease Status

Lease Reservation

Update Check

Enables Dynamic Host Configuration Protocol (DHCP) Server functionality on the LAN allowing the modem to dynamically assign IP addresses to clients that connect to it from the local network

Enable DHCP Server

DHCP Server IP Address 192 168 15 1

DHCP Starting IP Address 192 168 15 2

DHCP Ending IP Address 192 168 15 254

DHCP Lease Time 1 hour 0 minute 0 second

CANCEL

APPLY

Logout Reboot Reconnect

8. Confirm the MAC and IP Address of the device to receive the forwarded ports, and copy them down for later use.

Home

Device Status

Basic

Advanced

Firewall

Internet Protocol

Dynamic DNS

Port Forwarding

Local Address

DHCP Server

Lease Status

Lease Reservation

Update Check

Shows the active DHCP leases since the last reboot. For each active lease, the client host name, MAC address, IP address, and remaining lease duration are shown.

Host Name	MAC Address	IP Address	Remaining Lease Duration
Ken-PC	00:16:D3:EA:FC:BB	192.168.15.142	3534 second

REFRESH

AUTO-REFRESH

Logout Reboot Reconnect

9. Select the "Lease Reservation" sub-tab under the "Local Address" tab on the left side of the user interface.

Home

Device Status

Basic

Advanced

Firewall

Internet Protocol

Dynamic DNS

Port Forwarding

Local Address

DHCP Server

Lease Status

Lease Reservation

Update Check

Shows the active DHCP leases since the last reboot. For each active lease, the client host name, MAC address, IP address, and remaining lease duration are shown.

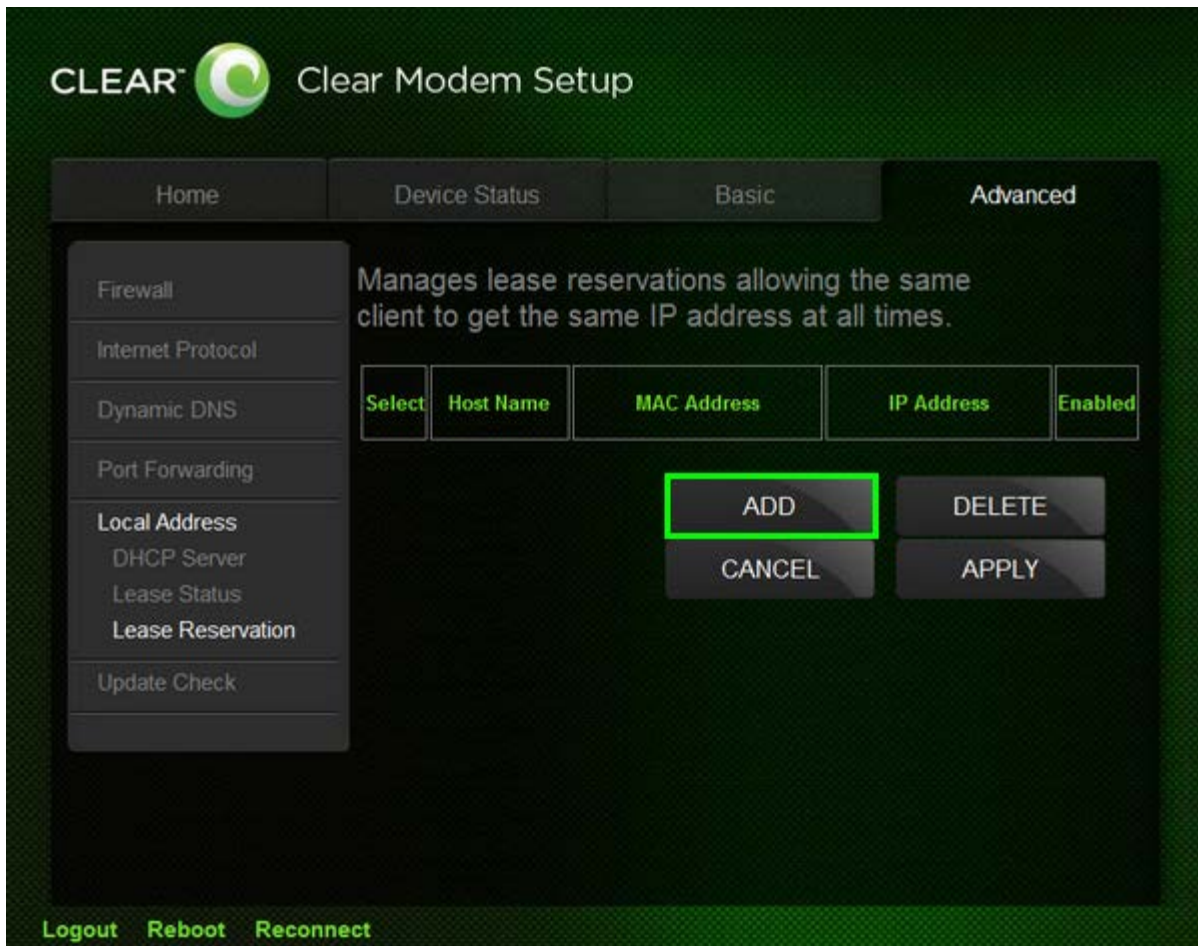
Host Name	MAC Address	IP Address	Remaining Lease Duration
Ken-PC	00:16:D3:EA:FC:BB	192.168.15.142	3534 second

REFRESH

AUTO-REFRESH

Logout Reboot Reconnect

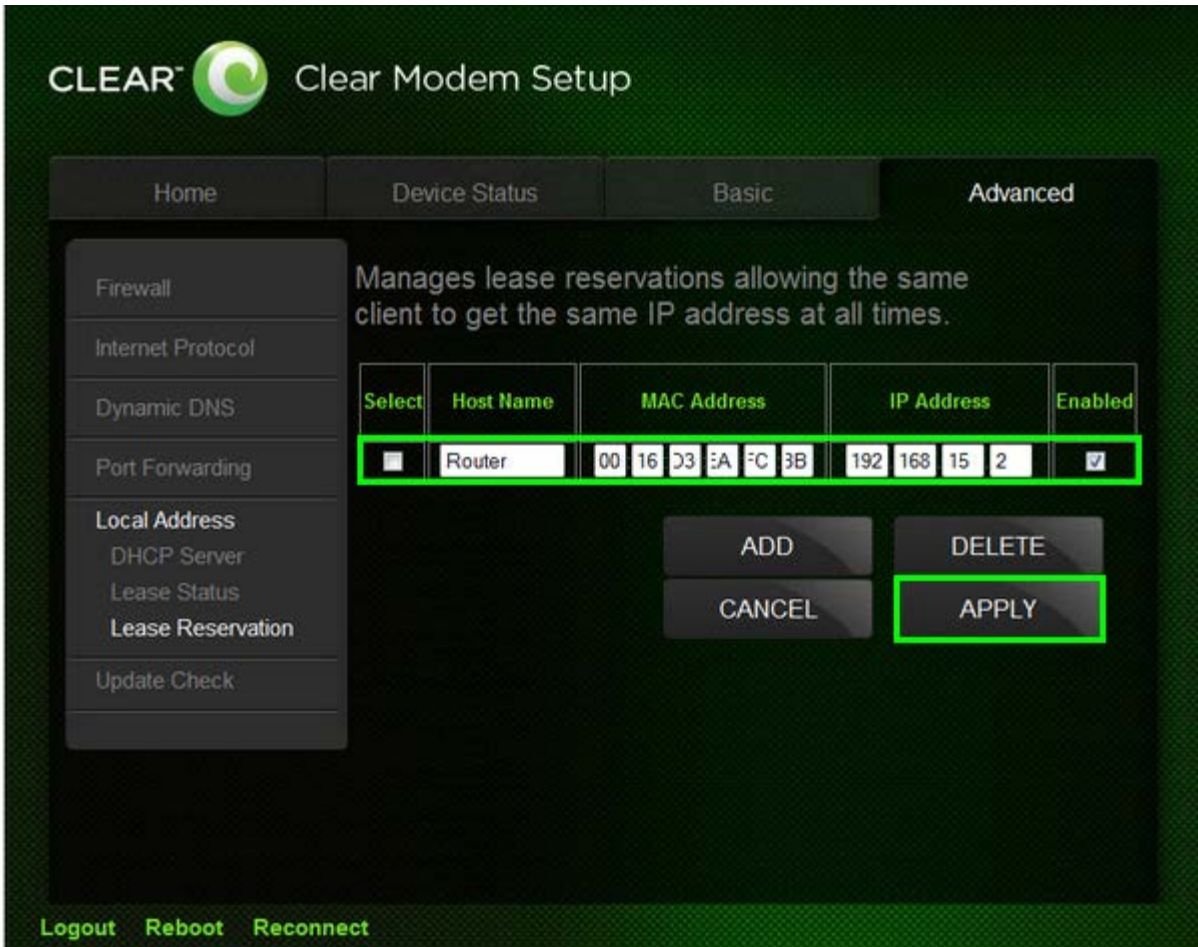
10. Select the "Add" button on the right side of the user interface.



11. Enter the device information:

- Client Host Name
- MAC Address of the device from Step 8
- IP Address from Step 8
- The "Select" checkbox does not need to be checked
- Ensure the "Enabled" checkbox is selected

Select "Apply" when all of this information has been entered.



12. Select the "Port Forwarding" tab on the left side of the user interface.

Home Device Status Basic **Advanced**

Firewall
Internet Protocol
Dynamic DNS
Port Forwarding
Local Address
DHCP Server
Lease Status
Lease Reservation
Update Check

Manages lease reservations allowing the same client to get the same IP address at all times.

Select	Host Name	MAC Address	IP Address	Enabled
<input type="checkbox"/>	Router	00 16 D3 EA FC 3B	192 168 15 2	<input checked="" type="checkbox"/>

ADD DELETE
CANCEL APPLY

Logout Reboot Reconnect

13. Ensure the "Enable UPnP IGD" checkbox is selected.
14. Ensure the "DMZ IP Address" field is blank. If there is anything in these boxes remove it or "Zero it out" and select "Apply".

Home

Device Status

Basic

Advanced

Firewall

Internet Protocol

Dynamic DNS

Port Forwarding

Basic

Forwarding

Local Address

Update Check

Enables Universal Plug and Play (UPnP) Internet Gateway Device (IGD) profile to allow certain Windows applications to setup the port forwarding rules dynamically on this device. Enables a specific LAN client to accept inbound connections which do not match with any forwarding rules.

Enable UPnP IGD

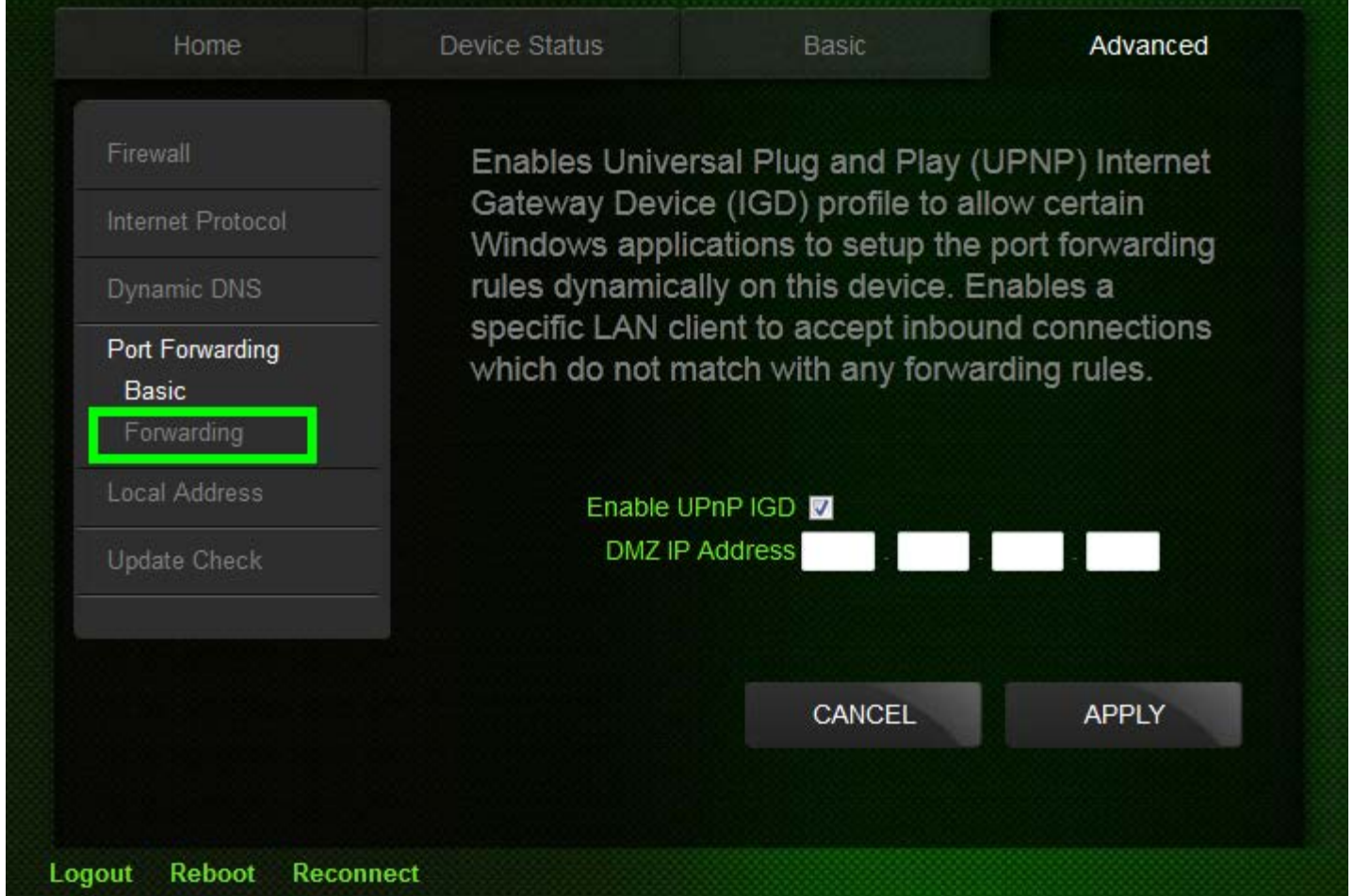
DMZ IP Address . . .

CANCEL

APPLY

[Logout](#) [Reboot](#) [Reconnect](#)

15. Select the "Forwarding" sub-tab under the "Port Forwarding" tab on the left side of the user interface.



16. Select the "ADD" button five (5) times, so that five (5) blank rows are available.

17. Enter the following information in those five (5) rows:

a. Row 1

- Protocol
 - Select "TCP"
- WAN Port Begin
 - Enter "1"
- WAN Port End
 - Enter "160"
- LAN IP
 - Enter the IP Address from Step 11

b. Row 2

- Protocol
 - Select "TCP"
- WAN Port Begin
 - Enter "162"
- WAN Port End
 - Enter "65535"
- LAN IP
 - Enter the IP Address from Step 11

c. Row 3

- Protocol
 - Select "UDP"
- WAN Port Begin
 - Enter "1"
- WAN Port End
 - Enter "67"
- LAN IP
 - Enter the IP Address from Step 11

d. Row 4

- Protocol
 - Select "UDP"
- WAN Port Begin
 - Enter "69"
- WAN Port End
 - Enter "160"
- LAN IP
 - Enter the IP Address from Step 11

e. Row 5

- Protocol
 - Select "UDP"
- WAN Port Begin
 - Enter "162"
- WAN Port End
 - Enter "65535"
- LAN IP
 - Enter the IP Address from Step 11

f. Select the "Apply" button at the bottom of the user interface.



18. Select the "Reboot" button at the bottom of the page and wait for the modem to restart.

The modem is now "wide open" and all ports are forwarded to the first NAT capable device hooked up after the modem.

Any further issues with port forwarding will need to be addressed with your 3rd party network equipment vendor, or 3rd party software vendor.