Port Forwarding Setup
(3G29Wn)
Port Forwarding

Port forwarding enables programs or devices running on your LAN to communicate with the internet as if they were directly connected.

This is most commonly used for VOIP ATA devices or online gaming (via game console or computer).

Port forwarding works by “forwarding” a specific TCP or UDP port from the modem / router to the computer or device you are using.

You can also restrict which incoming connections will have the rule applied to it. This enables you to specify all incoming connections, from a specific subnet or from an individual IP address.*

Different services and different games all use different TCP or UDP ports.

You will need to consult any information supplied with your service or game in order to find which ports need to be forwarded.

You can only forward a port to one location (IP address).

In some cases, this may cause issues when multiple LAN devices (computers, game consoles, or VOIP ATAs) attempt to use online gaming at the same time or make multiple VOIP service connections.

In these cases, you would need to use an alternate port for any subsequent connections after the first device.

Please consult your VOIP provider or game manufacturer for assistance with this.

* If supported by your model of modem / router.
Adding a Port Forwarding Rule

This guide will take you through the steps required to add a port forwarding rule to your modem/router.

1. Navigate to http://192.168.1.1 in a web browser using "admin" as both the username and password.
2. Mouse over the Advanced menu then NAT and select the Port Forwarding option.

3. To create your own port forwarding rule select Custom Service and enter a name for the Port Forwarding rule.
4. Enter the Server IP address, the local address of the device you wish to port forward to. This will be in the range of 192.168.1.x where x can be from 2 to 254.
5. Enter the External Port Start and External Port End of the port range.

Please note: Some services require more than one port forwarded. You can do this by specifying a sequential range of ports instead of just one.

For example: 6881-6999.

To do this, you would enter "6881" in the "Port Start" fields and "6999" in the "Port End" fields for both the "External Port" and "Internal Port" sections.

If the port rule is for a single port number enter the same port number in both the External Port Start and External Port End fields. The same port numbers will be entered into the Internal port range. You can change these manually if required.
6. Press the **Save/Apply** button.

There are also pre-configured port forwarding rules on the router that may be used.

To do this:

1. Select **Advanced > NAT > Port Forwarding**.
2. Press the Add button.
3. Select a pre-configured port forwarding rule from the “Select a Service” option. The example screenshot above shows the pre-configured Telnet Server rule.
4. Enter the **Server IP Address** for the device you wish to port forward to. This will be a local address in the range of 192.168.1.x where x can be from 2 to 254.
5. Note the External and Internal Port Start and End fields have been automatically configured. (See the screenshot below).
6. Press **Apply/Save**. The port forwarding rule for a telnet server has been saved to the router.
The screenshot below shows a pre-configured port forwarding rule for using Telnet with a device connecting to the 3G29Wn router that uses the local IP address 192.168.1.2.

You can only forward a port to **one** location (IP address).

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