

# Template:Networking rutx manual device recovery bootloader

## Bootloader menu

The **bootloader menu** is a special router state used as a recovery tool in case the router becomes inaccessible even after a factory reset. It can be used to upgrade the router's firmware or bootloader version.

Regardless of what the router's IP address was before, the IP address of the router when it's in the bootloader menu state is always **192.168.1.1**. So in order to reach the router, you'll have to set up a static IP address that's in the **192.168.1.0/24** network (for instance, 192.168.1.2) on your computer. Instructions are provided in the links below:

- [Windows](#)
  - [Linux](#)
- 

In order to place the router in the bootloader menu state, follow these steps:

- Unplug all cables from the router.
- Plug in one Ethernet cable for your computer into any LAN port.
- Press and hold the reset button.
- While holding the reset button, plug the power cable into the router. Continue holding the button for another 6 seconds.
- Release the reset button.

If you followed all the steps correctly, all panel LEDs should light up. This means that the router is in the bootloader menu state. If that is not the case, repeat the steps again.

At this point you should be able to reach the router's HTTP server via this address:

**192.168.1.1/index.html**

Type it into the URL field of your web browser, upload the FW image file and **click 'Update'**. Firmware files can be downloaded from `[[{{{name}}} _Firmware_Downloads|here]]`.

If everything went correctly, the update should begin. At this point you can close the browser window. The update will take about **120-180 seconds**.

**Additional note:** don't forget to restore your computer's IP address settings afterwards!