

Flashing the RBM33G and RBM11G From Factory

There are two methods to use flashing this router. Method 1 requires the factory firmware be 6.48.6 which may require rolling it back. Method 2 requires another router running OpenWrt or ROOter to use to flash the RBM33. This will work with any factory firmware.

Method 1

Extract all the files from the zipped image file to a temporary folder. These files are

- tftpd32.exe
- tftpd32.chm
- tftpd.ini
- rbm33g-initramfs-kernel.bin
- openwrt-RBM33G-xxxxxxx-xx-xx-upgrade.bin

or

- openwrt-RBM11G-xxxxxxx-xx-xx-factory.bin
- openwrt-RBM11G-xxxxxxx-xx-xx-upgrade.bin

Connect the LAN cable from your computer to the POE port of the RBM33G (left side of board beside power plug) or to the Ethernet port on the RBM11G. Do not power up the router at this time.

Set your computer to have a static IP address by going to **Network and Internet Settings** and **Change Adapter Options**. Select the **Local Area Connection** and then the **Properties** button. Next select the **Properties** for the **Internet Protocol 4** entry. Change the data there to the following.

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 1 . 2

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 192 . 168 . 1 . 1

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: 192 . 168 . 1 . 1

Alternate DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

Next the settings for **tftpd.32** need to be changed. Edit **tftpd32.ini** and change line 5 from

BootFile=rbm33g-initramfs-kernel.bin

so it matches the name of the factory file that came with the image archive.

Now start **tftpd32.exe** running. The **Windows Firewall** will pop up a box asking if this program should have access to your network. Allow this to happen.

Hold down the reset button on the router and plug in the power cable. Keep holding the button in until you see tftpd show that it is uploading the image file. Then release it.

Wait for the router to boot up and the lights to stop flashing. This will take a bit of time..

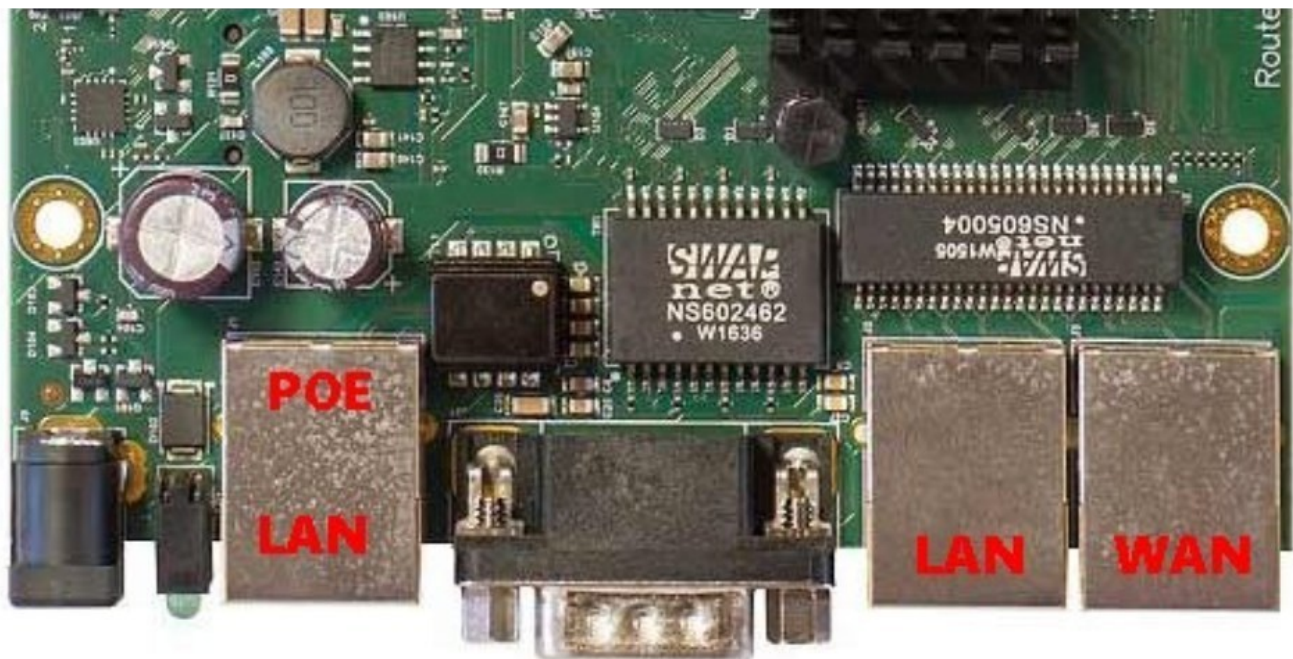
Point your browser to 192.168.1.1 and wait for the ROOter login screen to appear. You do not need to set a password at this point. Go to the **System → Backup/Flash Firmware** page.

Flash the router with the **upgrade** image that was in the archive. This will take some time so wait until the yellow light beside the power plug stops flashing and the browser returns to the login page.

The router has been flashed to ROOter and is ready for use.

Remember to set your computer back from the static IP Address to getting an IP automatically.

Once the router is flashed to ROOter the Ethernet ports of the RBM33G are configured as follows :



Flash Problems

If you find that you can't flash the second time to the ROOter upgrade image you probably need to roll back the RouterOS on the router before trying to flash.

Both RouterOs and System → RouterBoard → Firmware should be rolled back to 6.48.6 in order to be able to flash to ROOter.

Method 2

<https://www.aturnoftthenut.com/2021/03/17/using-dnsmasq-under-openwrt-as-a-tftp-boot-server/>

This outlines a method of flashing the router using another router as the TFTP server. It works with any factory firmware version. It outlines a general method of flashing Mikrotik routers that applies to the RBM33 as well.

When it references the *factory* firmware used in flashing use the ***rbm33g-initramfs-kernel.bin*** file from the ROOter package.