



Under construction.

Wi-Fi

Although Batocera functions perfectly fine offline, connecting it to the internet opens it up to [so much more cool stuff](#). An ethernet cable provides the best connection quality (especially for [netplay](#)), but Wi-Fi is available as an alternative.

Batocera *should* support most built-in and PCI-e Wi-Fi modules for ordinary PCs, however newer models are less likely to work out of the box. [Click here for a list of known compatible USB Wi-Fi dongles](#).

Wi-Fi setup

Ethernet connects and configures itself automatically, but this is not so the case for Wi-Fi. Some manual action is required.

First, activate Wi-Fi in the first place by going to the **MAIN MENU** → **NETWORK SETTINGS** → **ENABLE WIFI** (turning Wi-Fi off can be useful for battery-powered [handheld devices](#)).

Wait a moment for the Wi-Fi chip to actually turn on and start scanning (some devices may require a full reboot). Then all the available Wi-Fi access points will appear in the list.

From emulationstation menu, you can configure only 1 wifi. From batocera.conf, you can configure up to 3 wifi.

Manual SSID

In case the access point does not appear in the list (or you just have your SSID hidden in your router's settings), an SSID can be defined manually.

The SSID is case-sensitive. Special characters should be escaped with a backslash (\). For example, if the password is `special?characters@*`, the entered in password should be `special\?characters\@*`.

Upon connecting successfully, the Wi-Fi icon will appear in the top-right of the screen (certain themes may reposition this).



Screenshot of this very basic feature?

Command line options



WIP

<code>batocera-wifi start</code>	Turn on all available Wi-Fi modules.
<code>batocera-wifi scanlist</code>	List all available Wi-Fi in range.
<code>batocera-wifi list</code>	List all saved Wi-Fi configurations.
<code>batocera-wifi enable <SSID> <passkey></code>	Connect to the specified Wi-Fi and save it.
<code>batocera-wifi disable</code>	Turn off all Wi-Fi modules.

Troubleshooting

After activating Wi-Fi, it may take a moment to actually activate. In fact, it might not even activate until the system is rebooted. The power of Linux! Reboot and try again. It might even be worth waiting around ten seconds or so on the main menu before going into the Wi-Fi menu.

My Wi-Fi is slow/laggy!

The best advice for this is... don't use Wi-Fi. Use an Ethernet cable, especially if you want to do something ping-sensitive like [Netplay](#) or [game streaming](#). In the modern high-tech world we live in there is so much wireless noise in the air that getting a consistent, lag-free Wi-Fi signal is a pipe-dream. Only if you're seated right next to the router less than a few feet away, and even then...

But if your situation absolutely requires the use of Wi-Fi, here are some tips:

- Turn off as many other Wi-Fi enabled devices as you can, including your phone, your smart thermostat, your fridge, etc.
- Turn off any large mechanical devices that throw out lots of interference like combustion engines, generators, UPS's, microwaves, etc.
- Try to have a direct line-of-sight to your router. If that is not possible due to a wall being in the way, try to have the least amount of objects between the device and the router.
 - Usually, the best place for the router is very high above the ground, as there are less things on the ceiling than the floor.
 - This especially applies to any metallic or perfectly-flat objects as they can reflect the signal, causing even more interference.
- Optimize your router's settings. This can include doing things like enabling Quality of Service (QoS), Smart Queue Management (SQM), etc.
 - Typically only modern high-end routers support these features, as they require a bit more CPU power than just normal networking does. If your router supports installing [OpenWRT](#) onto it, it likely also supports this setting.
- If your device has other wireless interfaces such as Bluetooth or internal Wi-Fi (and you're using a USB dongle), turn them off.

- This is especially so if you only have 2.4 GHz Wi-Fi, as that operates near the same frequency as Bluetooth.



You can disable the Raspberry Pi 4's onboard Wi-Fi by adding `dtoverlay=disable-wifi` to `/boot/config.txt`.

How to manually add drivers (advanced)

Most network devices should already be supported by the Linux kernel included in Batocera. However, in some rare cases (such as bleeding-edge hardware) the drivers might not be included yet. If the manufacturer has provided pre-compiled binary driver files, it is possible to install them.

If your network/Wi-Fi device complains about requiring certain binary firmware files (check with `dmesg`), you can put them into `/lib/firmware/rtlwifi/` and run `batocera-save-overlay` after confirming it works.

An example of a Wi-Fi device complaining about binary firmware files in `dmesg`:

```
[ X.XXXXXXX } Wi-Fi: xxx0: RTL: firmware file rtlwifi/XXXXXXXXXX.bin not found
```



If you've done this and it worked successfully, let the devs know so they can add it to the next version of Batocera.

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