



Batocera

Supported Controllers

All major controllers are supported by Batocera. Emulation Station uses an internal database so that most of them work out of the box, no configuration required. For controllers not in this database yet, Batocera will prompt you to manually map its buttons.

Some controllers may have particular instructions to follow to get them to connect to Batocera in the first place, especially wireless ones. Said instructions are included below.

Generic USB controllers


Any generic USB controller should work. There is no special action to do to [make it](#) work, except to map it (if it is not in our database already).

If having trouble with getting it detected, refer to the [USB section on the joystick troubleshooting page](#).

Generic Bluetooth controllers

Any generic Bluetooth controller should work. The only action to do is to set your controller in discovery mode (there is usually a special button combination you need to hold for a few seconds, refer to its manual) then pair the controller by going in the menu to CONTROLLER & BLUETOOTH SETTINGS → PAIR A BLUETOOTH DEVICE. There is no special action to do to make it work, except to [map it](#) (if it is not in our database already).

In case of pairing issues it may help to clear the device from the list by selecting FORGET BLUETOOTH DEVICES, reboot and then try to pair again.

 In older versions of Batocera, this action will forget all known Bluetooth controllers!

For advanced setup and better error detecting we have build a guide for [manual connecting to a Bluetooth device](#). If you are still having issues, it might be possible that the Bluetooth dongle you are using is having issues. Troubleshoot for that on [the Bluetooth section on the troubleshooting page](#).

Contents [[hide](#)]

- 1 8bitdo Bluetooth controllers
- 2 Wii controllers
- 3 X-Arcade Tank stick
- 4 Dolphin bar for Lightgun games
- 5 Original system controllers
- 6 Documents / Resources
 - 6.1 References

8bitdo Bluetooth controllers



8bitdo Bluetooth controllers are supported. To pair an 8bitdo controller, first turn it on by pressing [+start] + [X] at the same time (for activating the X-input Mode, which is recommended (for example if you want to use rumble), otherwise [+start] + [Y] for Switch Mode) and then press and hold the sync button (if the controller has one) or [-select] button for 3 seconds, until the LED blinks rapidly. Then go in the menu to CONTROLLER & BLUETOOTH SETTINGS → PAIR A BLUETOOTH DEVICE. It should then automatically be detected and paired.

8bitdo controllers get excellent support from their manufacturer, so it might be worth to visit their support page and get the newest firmware installed. Users report of a massive improved BT support after [updating the firmware](#).

8bitdo Zero (first generation): To pair, press and hold [+start] + [R1] for 2 seconds, then go in the menu to CONTROLLER & BLUETOOTH SETTINGS → PAIR A BLUETOOTH DEVICE. Wait for 10-15 seconds and the controller should automatically be detected and paired.

? As of v31 and higher 8bitdo controllers in X-input mode are having some issues correctly mapping. You can switch to using D-input mode ([+start] + [B]) to avoid these issues.

PS3 controllers



Dual Shock PS3 controllers are supported. In case of issues, it is often the dongle which is not supported by Linux or an empty battery of the controller (sometimes it is helpful to reset the controller by pressing the small button on the backside with a toothpick for a few seconds). To pair a PS3 controller:

1. Plug it via the USB-cable into the machine Batocera is running on1.
2. Wait 5-10 seconds2.
3. Unplug the cable and press the PlayStation button in the middle of the controller3.


It should then automatically be detected and paired. Once done, there is no special action to do, all buttons are pre-configured.

PS4 controllers



PS4 controllers are supported. In case of issues, it is often the dongle which is not supported by Linux.

To pair the PS4 controller, first put it into pairing mode by press and holding the PlayStation button and [Share] button at the same time for 3 seconds. Hold these buttons until the light bar starts rapidly flashing. Then go in the menu to **CONTROLLER & BLUETOOTH SETTINGS** → **PAIR A BLUETOOTH DEVICE**. It should then automatically be detected and paired. For touch-friendly systems (looking at Nintendo DS emulators for example), the PS4 touch pad is recognized as a mouse, and can be used for that.

 Be cautious of repairing the controller to another device after initially pairing it to Batocera, users have reported strange behavior when reconnecting it to the Batocera machine after that. The reported solution is to “unpair” the device from the other device before reconnecting it to the Batocera machine.

PS5 controllers



Dual Sense PS5 controllers have been reported to work with Batocera 5.27. You need to pair a new controller and define the buttons mapping once the first time you associate your controller, and should be good to go, with the same features as a PS4 controller.

Xbox One (not Series X/S) controllers



Xbox One controllers are supported. There are two generations of Xbox One controllers:

- The original Xbox One controller, which is not Bluetooth compatible and requires a specific RF dongle (see below)
- Starting with Xbox One S, Microsoft launched a newer model (Model 1708) that is natively Bluetooth

The newer model can be used like any other Bluetooth controller. You can refer to this page to tell if your controller has Bluetooth or not.

For the original Xbox One controller, the original Microsoft Dongle has supported since Batocera 5.27.

To pair it just press the sync button on your controller (this only works with the the original RF dongle). In case of issues, it is often the dongle itself which is not supported by Linux. The only action to do, is to put your controller in discovery mode (after turning the controller on with the Xbox button in the middle of the controller, press and hold the small pairing button on the top of the controller until the Xbox logo starts rapidly blinking) and then pair the controller by going in the menu to **CONTROLLER & BLUETOOTH SETTINGS** → **PAIR A BLUETOOTH DEVICE**. It should then automatically be detected and paired.

Xbox 360 controllers



Xbox 360 controllers are supported. If you have a wired version, just plug it in via USB. For the wireless version you need the RF dongle of the Xbox 360 Wireless Controller (Xbox 360 is not Bluetooth).

Wii controllers



Wii controllers are supported in 2 delicious modes. In case you want use the Wii mote as a standard controller to play any game, pair the controller by going in the menu to CONTROLLER & BLUETOOTH SETTINGS → PAIR A BLUETOOTH DEVICE, then put you controller in discovery mode by pressing the red button to put the controller in discovery mode. To use the controller to play the Wii, first start a Wii game, then press the red button to put the controller in discovery mode.


Switch controllers



The Switch Pro Controller, Switch GameCube Bluetooth Controller and Switch Joy-Con are supported.

The only action to do is to pair the controller by going in the menu to CONTROLLER SETTINGS > PAIR A BLUETOOTH CONTROLLER, then put the controller in discovery mode using the Bluetooth button on the controller. Once the controller is detected, you can [configure the button mapping](#) as usual.

On the Switch Pro Controller, the 4 LEDs will keep blinking during play – but otherwise the controller works well.

 In Batocera v33, Switch controllers are not working properly. As a workaround, use the 8bitdo Bluetooth adapter, or [downgrade](#) to v32.

The Joy-Cons can only be used in their split mode, as separate controllers. There is no way to use them combined (yet) – please note you need Batocera 33 or newer to use the Joy-Cons.

X-Arcade Tank stick



The X-Arcade Tank stick is supported on Batocera when you enable controllers. `xarcade.enabled=1` in the `/userdata/system/batocera.conf` file. It is done through the `arcade2jstick` module, which means that each of the two sticks is seen as an independent joystick by Emulation Station and the emulators. The trackball is recognized as a USB mouse in emulators that support mouse.

Pointer devices (mice, trackballs, drawing tablets, etc.)

Any USB mouse or trackball should be supported out of the box. The XArcade Tank stick described above has a trackball that is automatically recognized as a USB mouse. Bluetooth mice/trackballs/drawing tablets should also be supported when you search for them in **CONTROLLER & BLUETOOTH SETTINGS → PAIR A BLUETOOTH DEVICE**. The 2018 Intuos Small Bluetooth drawing tablet has been reported as working out of the box through a Bluetooth connection (however it doesn't work with a cable).

Dolphin bar for Lightgun games



We recommend to use a May flash wireless sensor Dolphin Bar. However, some users have reported success using Batocera with a simple Wii LED bar, connecting a Wii mote with Batocera through Bluetooth. A Dolphin Bar is basically a Wii LED bar + the BT module that converts the raw signal into a more standard X-input or Dolphin-acceptable signal, enabling several emulation modes for the Wii mote.

More information in the following articles:

- [lightgun games](#) (for arcade games, or NES... see explanations on the page behind this link)
- [Wii games](#)

Original system controllers



There are adapters (sometimes called adapoids) that can be used to convert original controllers over to USB, which should work in most cases.

SNES/NES GPIO controllers

You can also connect original controllers via GPIO by directly wiring them to the correct pins on the board. You can buy a breakout adapter for this purpose, or just destroy the original connector and strip the wires yourself (not recommended for beginners).

SNES and NES controllers are supported so far using this method. Other controllers probably won't work using this method.

GPIO controllers can be used on Raspberry Pi 2, 3 and 4.

Wiring for the controllers must be done following this diagram:



Then, to activate GPIO controllers, you need to enable them in batocera.conf with the following lines:

```
## GPIO Controllers
```

```
## enable controllers on GPIO with mk_arcade_joystick_rpi (0,1)
```

```
controllers.gpio.enabled=1
```

```
## mk_gpio arguments, map=1 for one controller, map=1,2 for 2 (map=1,map=1,2)
```

```
controllers.gpio.args=map=1,2
```

In the previous example, we have two controllers enabled. If you have just one controller, you can put controllers.gpio.args=map=1.

For more information, a good how-to for connecting a GPIO controller to a Raspberry Pi through GPIO is [available on this page](#).

IPAC2 USB Controllers



I-PAC (Interface for PC to Arcade Controls) is a range of boards which allow connection of arcade controls such as buttons and joysticks to a USB port on a host system. It was designed around the MAME emulator which supports over 1000 arcade games and can be used with other emulators or any software which requires keyboard or game controller input. It is designed to be used inside an Arcade Games cabinet with the host system also mounted inside, but could just as easily be used with simply a control panel without a cabinet.

Special shift function buttons mean that a normal keyboard is only be needed for game loading and configuration, not for gameplay. All key codes can be programmed but you don't have to as you can use the built-in default configuration which has all standard MAME codes for quick and easy installation. Programmed keys codes are stored even after power off. [Read more here: Configure USB Keyboard Encoders](#)

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Documents / Resources

	<p>Batocera Supported Controllers Zero [pdf] Instructions</p> <p>Supported Controllers Zero, Controllers Zero, Supported Controllers</p>
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References

- [User Manual](#)

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