

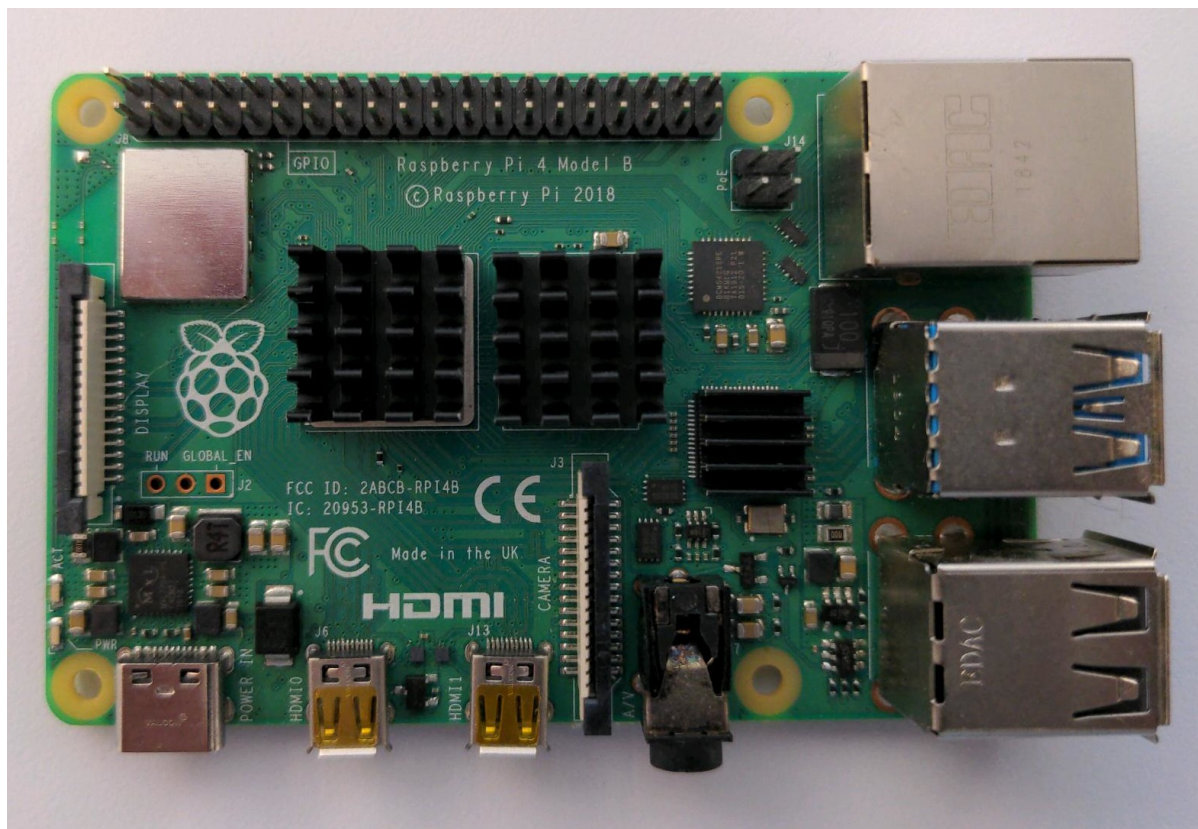
# Raspberry Pi Devices



Raspberry Pi models are the most popular [Open Source](#) mini-computers in the world and are used by amateur hobbyists and hackers as well as industry professionals in a variety of IoT capacities. They are designed by the [Raspberry Pi Foundation](#). Two targets are of interest to Tari due to their widespread deployment:

- **Raspberry Pi 4 B:** This single-board computer has a 64-bit ARM chipset ([arm64](#) architecture).
- **Raspberry Pi 3 B+:** This single-board computer has a 32-bit ARM hard-float chipset (ARMv7 [armhf](#) architecture).

## Raspberry Pi 4 B



## Documentation

### Vendor

The Raspberry Pi Foundation publishes a detailed [git repository](#) with most hardware design files as well as a documentation [wiki](#).

### Community

The hardware community around Raspberry Pi is huge and very active all over the Web, such as in the [Raspberry Pi Foundation forums](#).

## Software

### Bootloader

The Raspberry Pi 4 [bootloader](#) is loaded via EEPROM.

### Operating System

Raspberry Pi models ship with a [Debian GNU/Linux](#) derivative called [Raspbian](#) via the [NOOBS installer](#). Instructions for flashing and updating the OS [are available here](#).

### Connecting to the Device

The system starts the Raspbian [LXDE](#) desktop environment when it boots. The easiest way to access it is [connecting to a display](#) or via [the network](#).

### Tari Testing & Compatibility

The Tari suite arm64 builds for [Ubuntu](#) will run on the Raspberry Pi 4 B with Raspbian.

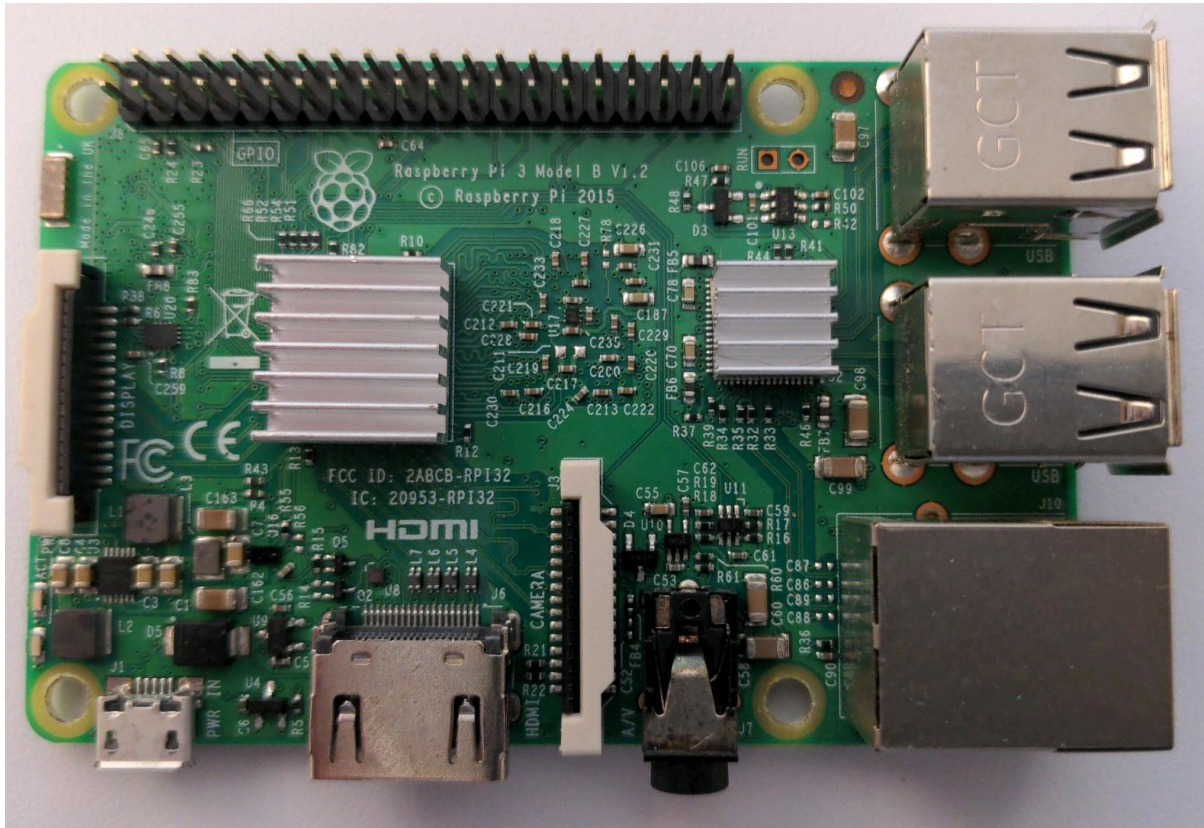
Some Debian dependencies must be installed: \* [Tor](#) must be installed and the [control port 9051](#) will need to be open and configured in /etc/tor/torrc. \* *NOTE* The Tari suite start\_all script requires the [GNOME](#) desktop environment. This DE is not recommended

on this device so the script should be ignored or modified for Raspbian.

Instructions: \* Download the arm64 build of `tari_suite` from the [Tari downloads page](#). \* Verify the SHA256 checksum for the file. \* Copy the ZIP archive to the device and extract the files with `unzip`. \* Change the permissions on the Tari binaries to be executable. \* Run the Tari binaries via the CLI.

Additional installation instructions are available in the [Tari project repositories](#).

## Raspberry Pi 3 B+



## Documentation

### Vendor

The Raspberry Pi Foundation publishes a detailed [git repository](#) with most hardware design files as well as a documentation [wiki](#).

### Community

The hardware community around Raspberry Pi is huge and very active all over the Web, such as in the [Raspberry Pi Foundation forums](#).

## Software

### Bootloader

The Raspberry Pi 3 [bootloader](#) is loaded via a `bootcode.bin` file on the boot filesystem (microSD card).

### Operating System

Raspberry Pi models ship with a [Debian GNU/Linux](#) derivative called [Raspbian](#) via the [NOOBS installer](#). Instructions for flashing and updating the OS [are available here](#).



## Connecting to the Device

The system starts the Raspbian [LXDE](#) desktop environment when it boots. The easiest way to access it is [connecting to a display](#) or via [the network](#).

## Tari Testing & Compatibility

The Tari project does not provide builds for the armhf architecture, so the Tari suite must be compiled from source on the Raspberry Pi 3.

Instructions for compiling from source are available in the [Tari project repositories](#).

Some Debian dependencies also must to be installed: \* [Tor](#) must be installed and the [control port 9051](#) will need to be open and configured in /etc/tor/torrc. \* [unzip](#) is required to extract the Tari binaries. \* *NOTE* The Tari suite start\_all script requires the [GNOME](#) desktop environment. This DE is not recommended on this device so the script should be ignored or modified for Raspbian.