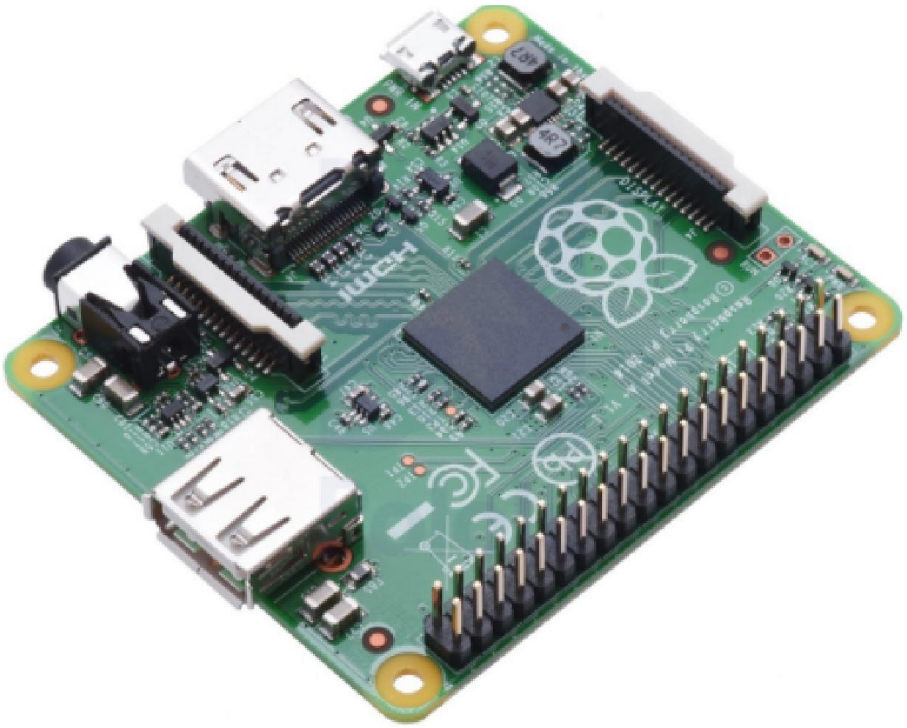
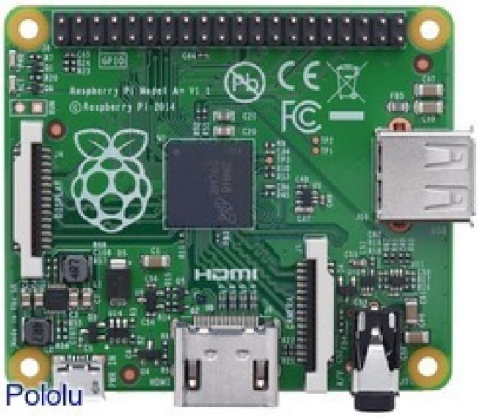
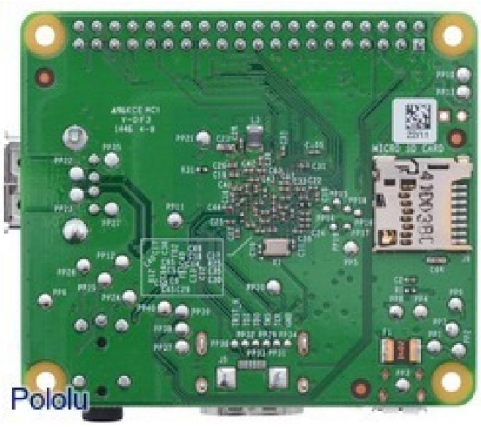
Raspberry Pi 1 Model A+ 512MB



The Raspberry Pi is a credit card-sized computer with an ARM processor that can run Linux. This item is the **Raspberry Pi 1 Model A+ 512MB**, which has 512 MB of RAM, an HDMI output, audio output, RCA composite video output (through the 3.5 mm jack), one USB port, and 0.1″-spaced pins that provide access to general purpose inputs and outputs (GPIO). The Model A Raspberry Pis are smaller and less expensive than the Model B Raspberry Pis. The Raspberry Pi requires a microSD card with an operating system on it (not included). The Raspberry Pi is very popular, with lots of example projects and information available online.



Raspberry Pi 1 Model A+, top view.



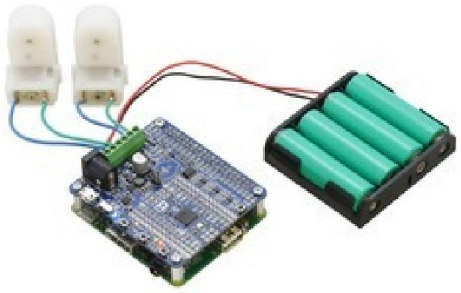
Raspberry Pi 1 Model A+, bottom view.

Overview

The Raspberry Pi is a credit card-sized computer. The Raspberry Pi Model A+ is a smaller, low-cost version of the Raspberry Pi. It is based on the BCM2835 system-on-chip (SoC), which includes an ARM11 processor and a powerful GPU. The Raspberry Pi Model A+ is recommended more for embedded and low-power projects that do not require Ethernet or multiple USB ports.

The Raspberry Pi was designed by the Raspberry Pi Foundation in order to provide an affordable platform for experimentation and education in computer programming. The Raspberry Pi can be used for many of the things that a normal PC does, including using high-level computer programming languages (like Python), acting as a USB host, and

operating system multitasking. Over twelve million Raspberry Pis have been sold, and lots of resources for the Raspberry Pi are available online.
With its 0.1″-spaced GPIO header and small size, the Raspberry Pi also works as a programmable controller in a wide variety of robotics and electronics applications. It can also be combined with our A-Star 32U4 Robot Controller LV with Raspberry Pi Bridge to make a great controller for a small robot. We also carry a selection of Raspberry Pi expansion boards.



Driving motors with an A-Star 32U4 Robot Controller LV with Raspberry Pi Bridge on a on a Raspberry Pi Model A+.

Features

- 700 MHz ARM11 processor
- 512 MB RAM
- One USB port
- Full-size HDMI output
- Four-pole 3.5 mm jack with audio output and composite video output
- 40-pin GPIO header with 0.1″-spaced male pins that are compatible with our 2×20 stackable female headers and the female ends of our premium jumper wires.
- Camera interface (CSI)
- Display interface (DSI)
- Micro SD card slot

What you will need

To use the Raspberry Pi, you will need a few additional things that are not included:

- A 5 V power source with a micro USB connector. We recommend this 5.2 VDC 2.5 A wall power adapter.
- A microSD card with an operating system on it, which also serves as the main storage for the device.
- Input and output devices, such as a keyboard and monitor.

> While the Raspberry Pi is powered from a 5 V supply, it operates at a 3.3 V logic level and its pins are not 5V-tolerant. Connecting higher voltages, like 5 V, directly to an I/O pin could damage the board. We recommend you use something like our **bidirectional logic level shifter** to interface this board with 5V systems.

For more information about the Raspberry Pi, see the technical, help, and resource documents on the Raspberry Pi website.

Comparing Raspberry Pi models