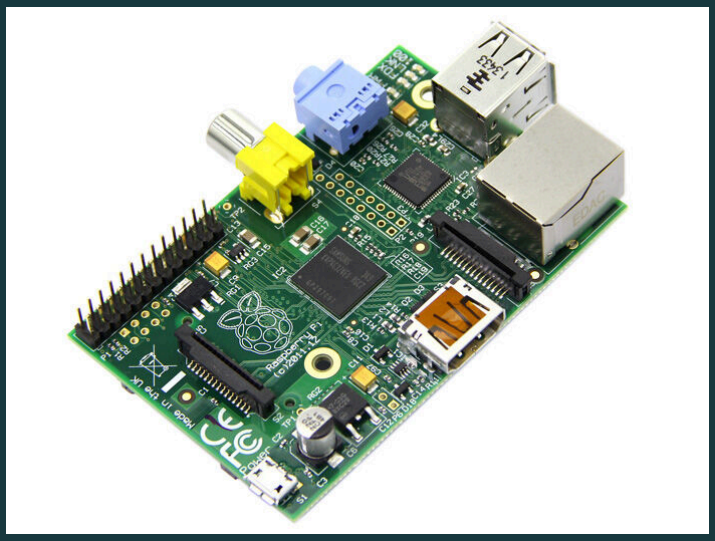
seeed studio

INDUSTRIAL PRODUCT DATASHEET

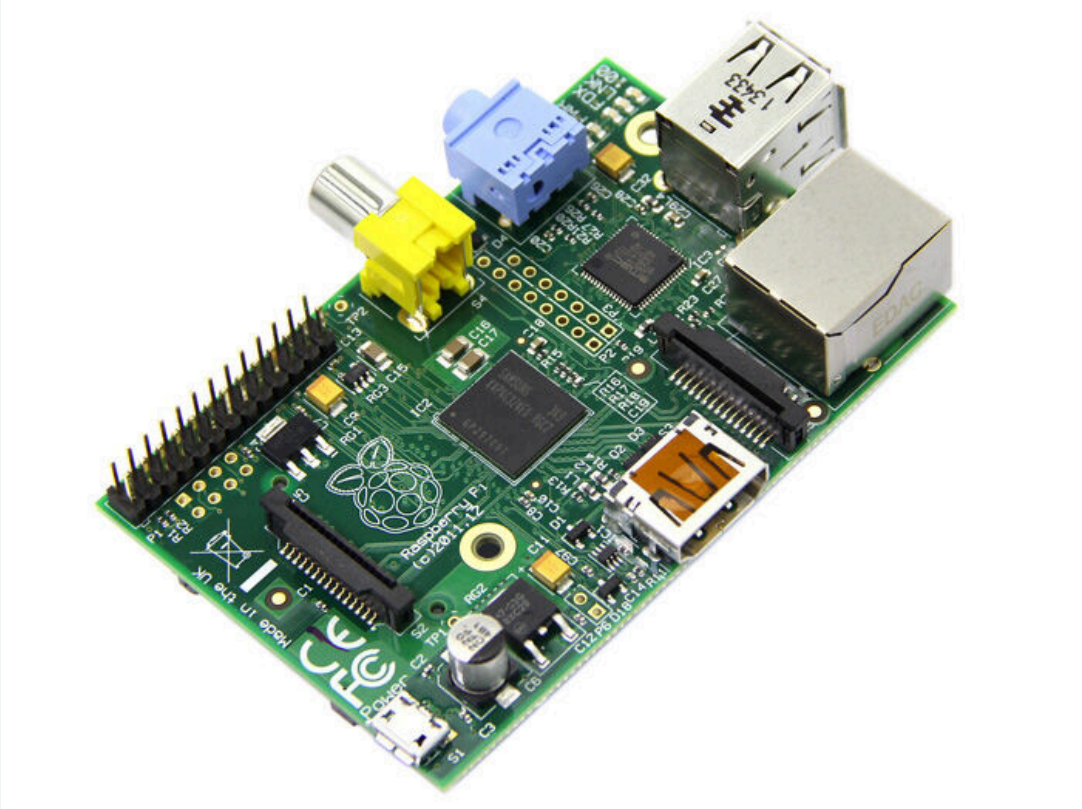
Raspberry Pi - Model B

A compact, versatile mini-computer with 512 MB RAM, Ethernet, and HDMI, ideal for learning programming, media playback, and DIY projects.

SKU	UPDATED	PRICE
102990039	2025-08-30 10:37:48	$39.90(Excl. VAT)



Overview



The Raspberry Pi Model B is a credit-card-sized computer featuring a 700 MHz ARM11 CPU, 512 MB RAM, HDMI output, 10/100 Ethernet, and two USB ports. It runs various Linux distributions and supports applications like lightweight web servers, game console emulation, and home automation.

Key Features

Raspberry Pi is a mini computer that plugs into your TV (or other Displays) and a keyboard. It's a capable little PC which can be used for many of the things that your desktop PC does, like spreadsheets, word-processing and games. It also plays high-definition video. We want to see it used by kids all over the world to learn programming.

This is a Model B version that provides larger RAM than Model A. It also has two USB ports and an Ethernet port.

Raspberry Pi has a wide application range, such as lightweight web server, a game console with emulator, home automation server, and so forth.

Features

- As small as credit card
- Video Out via Composite (PAL and NTSC), HDMI or Raw LCD (DSI)
- 10/100 Ethernet (RJ45) supported
- A lot of Linux distros be supported
- hardware-accelerated OpenVG
- 1080p30 H.264 high-profile decode.

Specifications

- Broadcom BCM2835 SoC
- 700 MHz ARM11 core CPU
- 512MB RAM
- The SoC's GPU provides Open GL ES 2.0, hardware-accelerated OpenVG, and 1080p30 H.264 high-profile decode.
- 2x USB 2.0 ports
- Storage: SD/MMC/SDIO
- 26 extended pins, Low-Level Peripherals:
  - 8 x GPIO
  - UART
  - I2C bus
  - SPI bus with two chip selects
  - +3.3V x2
  - +5V x2
  - Ground x5
- Audio Out via 3.5mm Jack or Audio over HDMI
- Power Requirements: 5V @ 700 mA via MicroUSB or GPIO Header

Includes

- Raspberry Pi board x1
- Instruction card x1

Documents

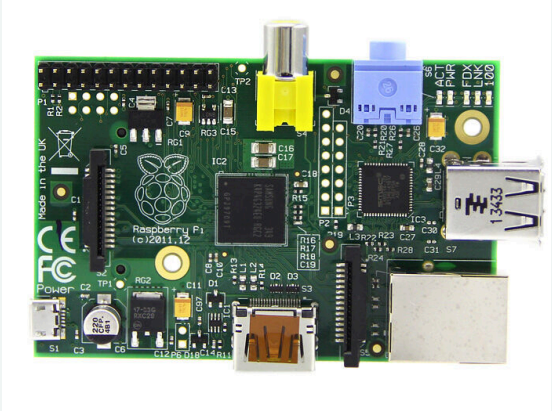
- Building boot card
- A List of supported Linux distributions
- Some special distros for Rasberry pi
- Low Level peripherals detail
- How to make Grove modules work with Raspberry Pi(Chinese)

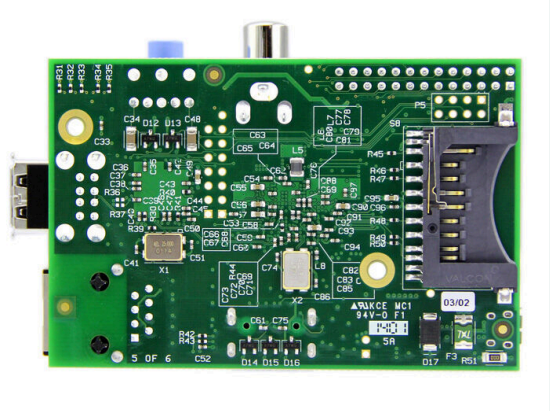
Software

- Win32 Disk Imager, help to create boot card
- Building Raspberry Pi as game console
- A OS that help people self-host websites, email, files and more
- Grove-RaspberryPi

Product Gallery







Resource Links

- https://www.seeedstudio.com/Raspberry-Pi-Model-B-p-1634.html

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