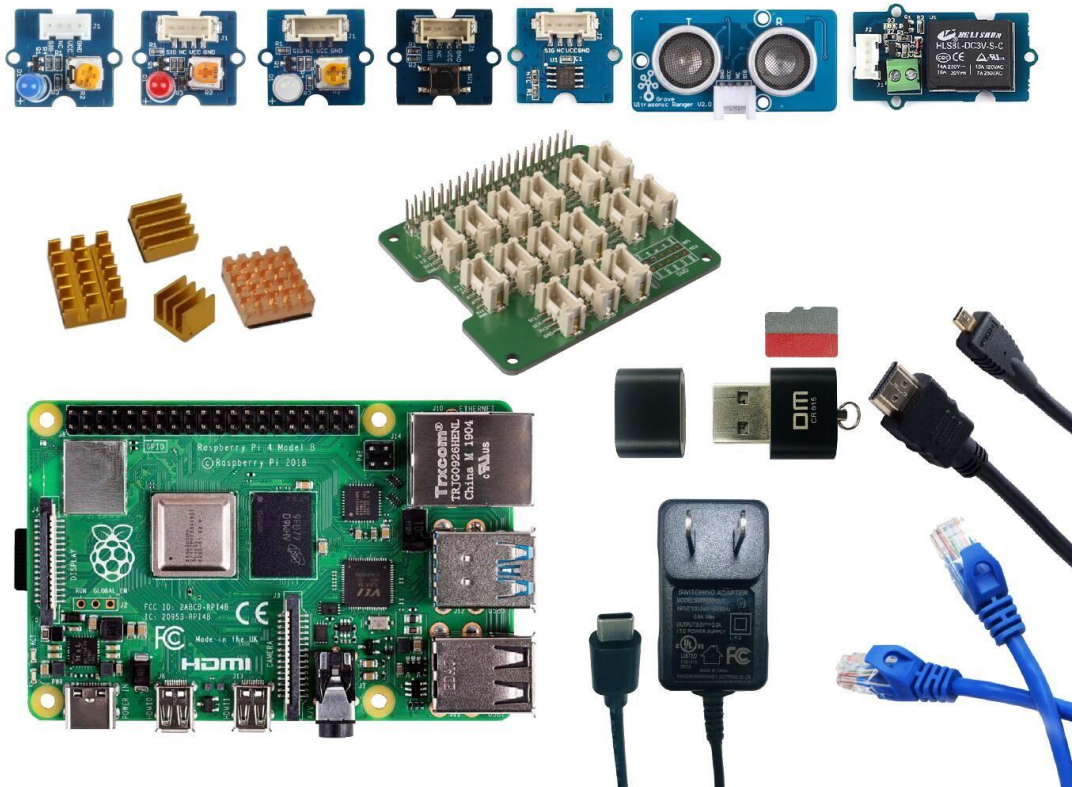




**seeed** studio  
The IoT Hardware Enabler



The Grove Base Kit for Raspberry Pi is one of the best kits for beginners to get started with Raspberry Pi. No troublesome soldering and no complicated wiring. You can focus on learning Raspberry Pi. This kit includes a Grove Base Hat for Raspberry Pi and 7 Grove. All you need to do is follow the demo and plug the module into the Grove Base Hat, truly plug and play.

With this kit you can implement GPIO control LED, use buttons to get outside temperature or control external lights.

Whether you are a student, teacher, artist or hardware enthusiast, with the help of the Grove Beginner Kit for Raspberry Pi, you will get to know Raspberry Pi quickly and comprehensively.

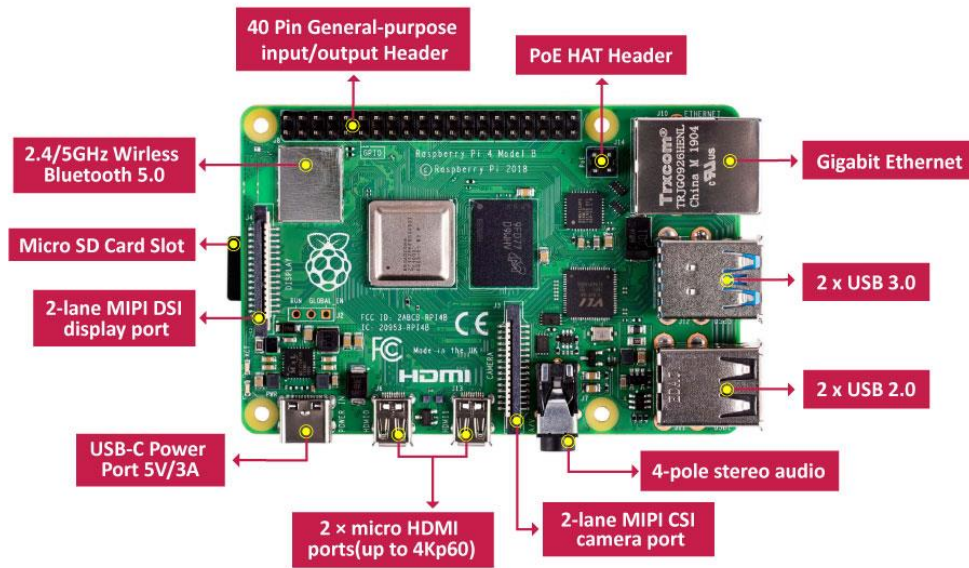
## **The Raspberry Pi 4 Grove Beginner Kit includes:**

- Raspberry Pi 4 Computer Model B 4GB
- Wall Adapter Power Supply - 5VDC 3A Type-C
- Micro SD Card with Card Reader-32GB(Class 10)
- Heat Sink Kit for Raspberry Pi 4B - Gold Aluminium and Copper Blocks
- Micro HDMI to Standard HDMI Male Cable - 1m(Support Pi 4)
- Cat6 Ethernet Cable - 1 Meter
- Grove Base Hat for Raspberry Pi
- Grove - Blue LED
- Grove - Button
- Grove - White LED
- Grove - Red LED
- Grove - Temperature Sensor
- Grove - Ultrasonic Distance Sensor

## **Specification**

- Processor: Broadcom BCM2711, quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
- Memory: 1GB, 2GB or 4GB LPDDR4(depending on model)
- Connectivity:
- 2.4 GHz and 5.0 GHz IEEE 802.11b/g/n/ac wireless
- LAN, Bluetooth 5.0, BLE
- Gigabit Ethernet
- 2 × USB 3.0 ports
- 2 × USB 2.0 ports
- GPIO: Standard 40-pin GPIO header(fully backwards-compatible with previous boards)
- Video & Sound:
- 2 × micro HDMI ports (up to 4Kp60 supported)
- 2-lane MIPI DSI display port
- 2-lane MIPI CSI camera port
- 4-pole stereo audio and composite video port
- Multimedia:
- H.265 (4Kp60 decode)
- H.264 (1080p60 decode, 1080p30 encode)
- OpenGL ES, 3.0 graphics
- SD card support: Micro SD card slot for loading operating system and data storage
- Input power:
- 5V DC via USB-C connector (minimum 3A)
- 5V DC via GPIO header (minimum 3A)
- Power over Ethernet (PoE)–enabled(requires separate PoE HAT)
- Environment: Operating temperature 0–50°C
- Compliance: For a full list of local and regional product approvals, please visit <https://www.raspberrypi.org/documentation/hardware/raspberrypi/conformity.md>
- Production lifetime: The Raspberry Pi 4 Model B will remain in production until at least January 2026.

## Hardware Overview



*Raspberry Pi 4 Hardware Overview by Seed*

## Part List

Raspberry Pi 4 Computer Model B 4GB	1
Wall Adapter Power Supply - 5VDC 3A Type-C	1
Micro SD Card with Card Reader-32GB	1
Heat Sink Kit for Raspberry Pi 4B - Gold Aluminium and Copper Blocks	1
Micro HDMI to Standard HDMI Male Cable - 1M	1
Cat6 Ethernet Cable - 1 Meter	1
Grove Base Hat for Raspberry Pi	1
Grove - Blue LED	1
Grove - Button	1
Grove - White LED	1
Grove - Red LED	1
Grove - Temperature Sensor	1
Grove - Ultrasonic Distance Sensor	1
Grove - Relay	1