Raspberry Pi 500 Keyboard Computer Owner's Manual

Contents

Raspberry

Raspberry Pi 500 Keyboard Computer

Specifications

- **Processor:** 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with cryptography extensions, 512KB per-core L2 caches and a 2MB shared L3 cache
- **Memory:** 8GB LPDDR4X-4267 SDRAM

- **Connectivity:** GPIO Horizontal 40-pin GPIO header
- **Video & sound:** Multimedia: H.265 (4Kp60 decode); OpenGL ES 3.0 graphics
- **SD card support:** microSD card slot for operating system and data storage
- **Keyboard:** 78-, 79- or 83-key compact keyboard (depending on regional variant)
- **Power:** 5V DC via USB connector

Dimensions:

- **Production lifetime:** Raspberry Pi 500 will remain in production until at least January 2034
- **Compliance:** For a full list of local and regional product approvals, please visit **pip.raspberrypi.com**
- **List price:** See table below

Product Usage Instructions

Setting Up Raspberry Pi 500

1. Unbox the Raspberry Pi 500 Desktop Kit or Raspberry Pi 500 unit.
2. Connect the power supply to the Raspberry Pi via the USB-C connector.
3. If using the Desktop Kit, connect the HDMI cable to your display and the Raspberry Pi.
4. If using the Desktop Kit, connect the mouse to one of the USB ports.
5. Insert the microSD card into the microSD card slot for operating system and data storage.
6. You are now ready to power on your Raspberry Pi 500.

Navigating Keyboard Layouts

The Raspberry Pi 500 keyboard comes in different layouts depending on the regional variant. Familiarize yourself with the layout specific to your region for optimal usage.

General Usage Tips

- Avoid exposing your Raspberry Pi to extreme temperatures or moisture.
- Regularly update your operating system for improved performance and security.
- Properly shut down your Raspberry Pi before disconnecting power to prevent data corruption.

Frequently Asked Questions (FAQ)

- **Q: Can I upgrade the memory on the Raspberry Pi 500?**
  A: The memory on the Raspberry Pi 500 is not user-upgradeable as it is integrated into the board.
- **Q: Is it possible to overclock the processor on the Raspberry Pi 500?**
  A: Overclocking the processor may void the warranty and is not recommended as it can lead to instability and damage to the device.
- **Q: How do I access the GPIO pins on the Raspberry Pi 500?**
  A: The GPIO pins are accessible via the horizontal 40-pin GPIO header located on the board. Refer to the official documentation for pinout details.

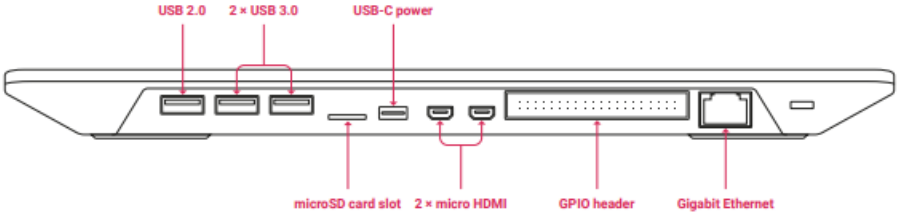
Overview

A fast, powerful computer built into a high-quality keyboard, for the ultimate compact PC experience.

- Raspberry Pi 500 features the same quad-core 64-bit Arm processor and RP1 I/O controller found in Raspberry Pi 5. With a one-piece aluminium heatsink built in for improved thermal performance, your Raspberry Pi 500 will run fast and smoothly even under heavy load, while delivering glorious dual 4K display output.
- For those looking for the complete Raspberry Pi 500 setup, the Raspberry Pi 500 Desktop Kit comes with a mouse, a USB-C power supply and an HDMI cable, along with the Official Raspberry Pi Beginner's Guide, to help you get the most out of your new computer.

Specification

- Processor: 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with cryptography extensions, 512KB per-core L2 caches and a 2MB shared L3 cache
- Memory: 8GB LPDDR4X-4267 SDRAM
- Connectivity: Dual-band (2.4GHz and 5.0GHz) IEEE 802.11b/g/n/ac Wi-Fi® Bluetooth 5.0, BLE Gigabit Ethernet 2 × USB 3.0 ports and 1 × USB 2.0 port
- GPIO: Horizontal 40-pin GPIO header
- Video & sound: 2 × micro HDMI ports (supports up to 4Kp60)
- Multimedia: H.265 (4Kp60 decode);
- OpenGL ES 3.0 graphics
- SD card support: microSD card slot for operating system and data storage
- Keyboard: 78-, 79- or 83-key compact keyboard (depending on regional variant)
- Power: 5V DC via USB connector
- Operating temperature: 0°C to +50°C
- Dimensions: 286 mm × 122 mm × 23 mm (maximum)
- Production lifetime: Raspberry Pi 500 will remain in production until at least January 2034
- Compliance: For a full list of local and regional product approvals, please
- visit pip.**raspberrypi.com**
- List price: See table below



Buying options

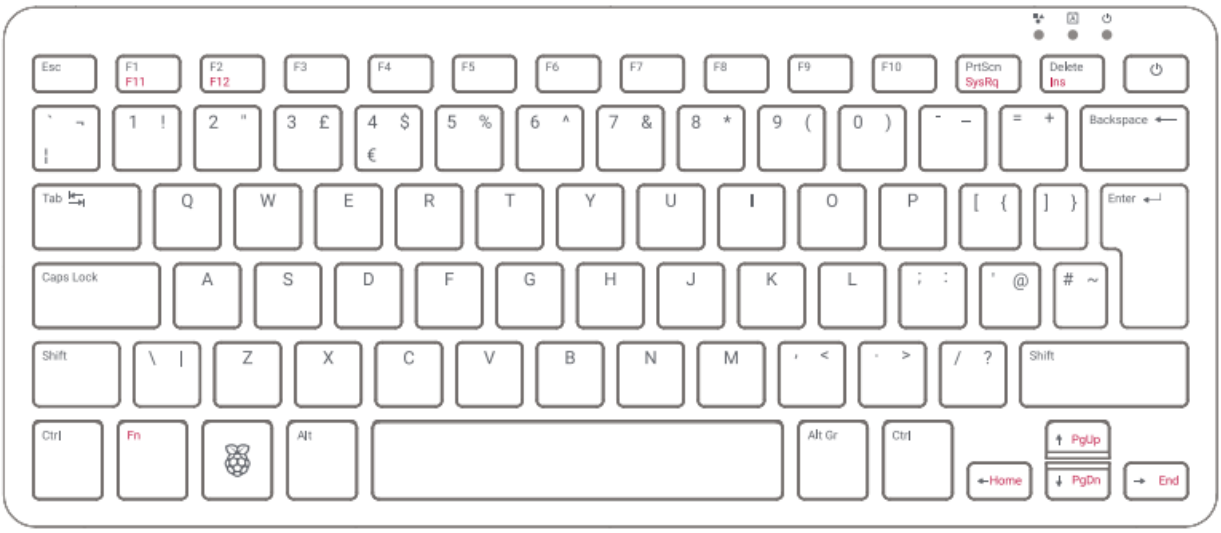
Product and regional variant	Keyboard layout	microSD card	Power supply	Mouse	HDMI cable	Beginner's Guide	Price*
Raspberry Pi 500 Desktop Kit, UK	UK	32GB microSD card, pre-programmed with Raspberry Pi OS	UK	Yes	1 × micro HDMI to HDMI-A cable, 1 m	English	**$120**
Raspberry Pi 500 Desktop Kit, US	US		US			English	

Raspberry Pi 500, UK	UK	32GB microSD card, pre-programmed with Raspberry Pi OS	Not included in unit-only option		**$90**
Raspberry Pi 500, US	US				

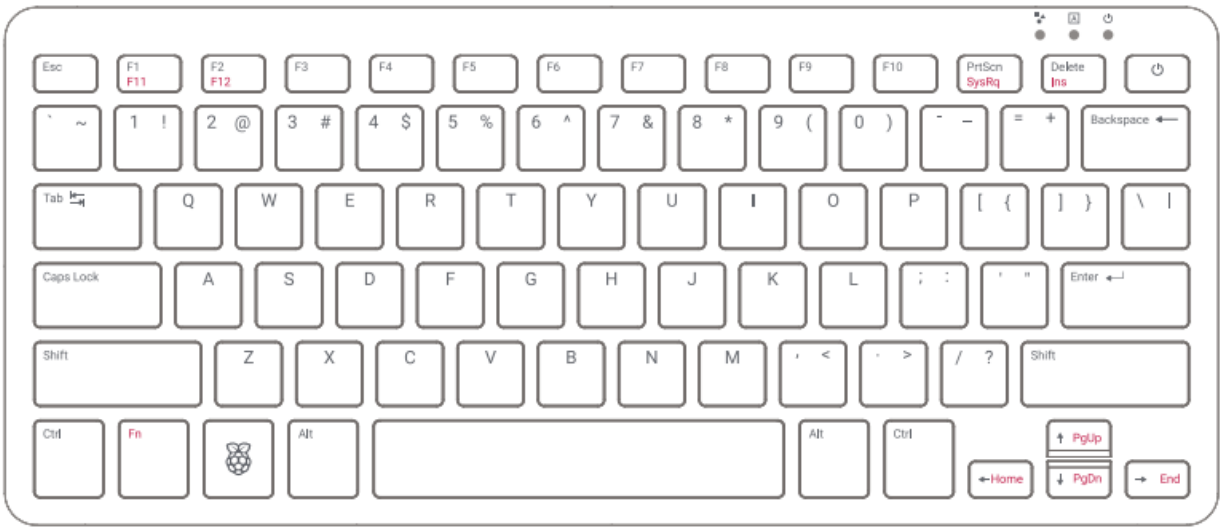
* price excludes sales tax, any applicable import duty, and local shipping costs

Keyboard print layouts

UK



US



WARNINGS

- Any external power supply used with Raspberry Pi 500 shall comply with relevant regulations and standards applicable in the country of intended use.
- This product should be operated in a well-ventilated environment and should not be covered when being operated.
- The connection of incompatible devices to Raspberry Pi 500 may affect compliance, result in damage to the unit, and invalidate the warranty.
- There are no user-serviceable parts inside Raspberry Pi 500, and opening the unit is likely to damage the product and invalidate the warranty.
- All peripherals used with this product should comply with relevant standards for the country of use and be marked accordingly to ensure that safety and performance requirements are met. These articles include, but are not limited to, mice, monitors and cables when used in conjunction with Raspberry Pi 500.
- The cables and connectors of all peripherals used with this product must have adequate insulation so that relevant safety requirements are met.
- Prolonged exposure to direct sunlight may cause discoloration.

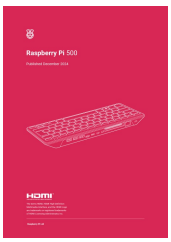
SAFETY INSTRUCTIONS

To avoid malfunction or damage to this product, please observe the following:

- Do not expose to water or moisture whilst in operation.
- Do not expose to heat from any source; Raspberry Pi 500 is designed for reliable operation at normal ambient temperatures.
- Take care whilst handling to avoid mechanical or electrical damage to the computer.

Raspberry Pi 500 – Raspberry Pi Ltd
Raspberry Pi is a trademark of Raspberry Pi Ltd

Documents / Resources

	Raspberry Pi 500 Keyboard Computer [pdf] Owner's Manual RPI500, 500 Keyboard Computer, 500, Keyboard Computer, Computer

References

- Documents - Product Information Portal - Raspberry Pi
- User Manual