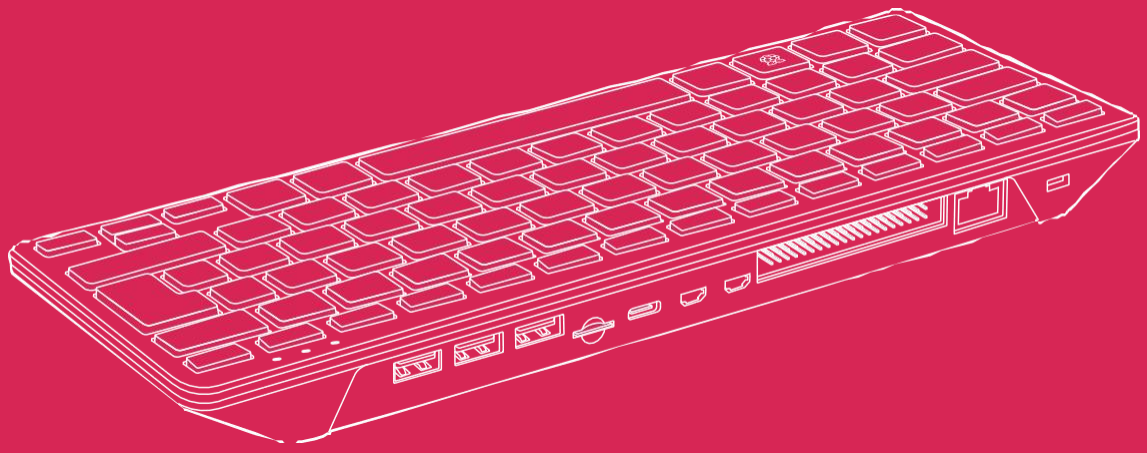
Raspberry Pi 500

Published December 2024



HIGH-DEFINITION MULTIMEDIA INTERFACE

Overview

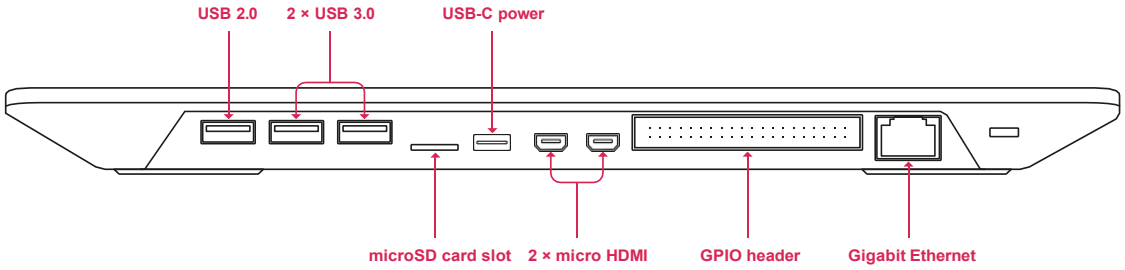
A fast, powerful computer built into a high-quality keyboard, for the ultimate compact PC experience.

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**



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.