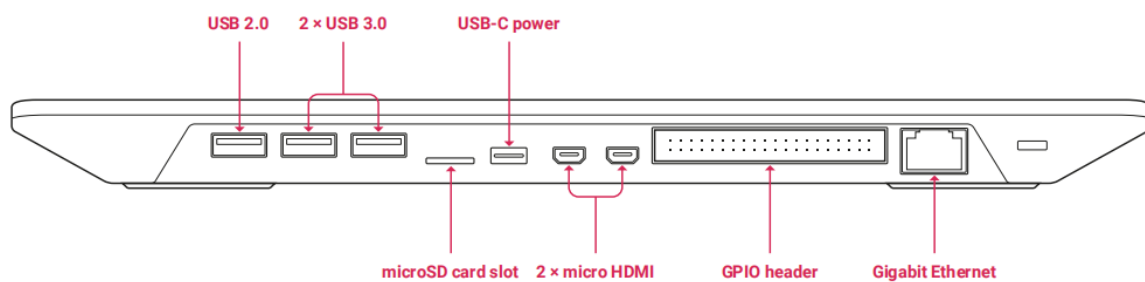


# Introduction to Raspberry Pi 500

Raspberry Pi 500 is a fast and powerful computer integrated into a high-quality keyboard, providing the ultimate compact PC experience. It uses the same 2.4GHz quad-core 64-bit Arm Cortex-A76 processor and RP1 I/O controller as the Raspberry Pi 5, equipped with 8GB RAM memory, and built-in integrated aluminum heat sink to improve heat dissipation performance, so it can keep running fast and smooth even under heavy load. Raspberry Pi 500 supports dual-band Wi-Fi (2.4GHz and 5.0GHz), Bluetooth 5.0 and Gigabit Ethernet, provides 2 USB 3.0 interfaces, 1 USB 2.0 interface, and 2 micro HDMI interfaces that support 4Kp60 output, while retaining a 40-pin GPIO interface, providing users with powerful connectivity and expansion capabilities.



## Functional interface



## Dimensions



## Product parameters (compared with Raspberry Pi 400)

Model	SoC	Memory	GPIO	Connectivity
 <p>Raspberry Pi 400</p>	BCM2711	4GB	40-pin GPIO header	<ul style="list-style-type: none"> <li>• 2× micro HDMI</li> <li>• USB 2.0</li> <li>• 2× USB 3.0</li> <li>• Gigabit (1Gb/s) Ethernet RJ45</li> <li>• 2.4/5GHz dual-band 802.11ac Wi-Fi (120Mb/s)</li> <li>• Bluetooth 5, Bluetooth Low Energy (BLE)</li> <li>• microSD card slot</li> <li>• USB-C power (5V 3A (15W))</li> </ul>
 <p>Raspberry Pi 500</p>	BCM2712	8GB	40-pin GPIO header	<ul style="list-style-type: none"> <li>• 2× micro HDMI</li> <li>• USB 2.0</li> <li>• 2× USB 3.0</li> <li>• Gigabit (1Gb/s) Ethernet RJ45</li> <li>• 2.4/5GHz dual-band 802.11ac Wi-Fi 5 (300Mb/s)</li> <li>• Bluetooth 5, Bluetooth Low Energy (BLE)</li> <li>• microSD card slot</li> <li>• USB-C power (5V 5A (25W), or 5V 3A (15W) with a 600mA peripheral limit)</li> </ul>