## Description

We are now requiring a verified account *with two-factor authentication enabled* in order to purchase certain high-demand products. Please <u>make sure</u> <u>you have a verified Adafruit account</u> and <u>enable two-factor authentication</u>. Finally, you will need to sign out and back in to activate the account verification. For more information, <u>please read this FAQ</u>.

The Raspberry Pi 5 is the newest Raspberry Pi computer, and the Pi Foundation knows you can always make a good thing *better*! And what could make the Pi 5 better than the 4? How about a *faster* processor, USB 3.0 ports, and an updated Gigabit Ethernet chip with PoE capability? Good guess – that's exactly what they did!

The Raspberry Pi 5 is the latest product in the Raspberry Pi range, boasting 64bit quad-core Arm Cortex-A76 processor running at 2.4GHz with built-in metal heatsink, USB 3 ports, dual-band 2.4GHz and 5GHz wireless LAN, faster Gigabit Ethernet, and PoE capability via a separate PoE HAT.

This version comes with 8 GB of RAM, but there's also a 4GB version if you like.

Featuring a 64-bit quad-core Arm Cortex-A76 processor running at 2.4GHz, Raspberry Pi 5 delivers a  $2-3\times$  increase in CPU performance relative to Raspberry Pi 4. Alongside a substantial uplift in graphics performance from an 800MHz VideoCore VII GPU; dual 4Kp60 display output over HDMI; and state-ofthe-art camera support from a rearchitected Raspberry Pi Image Signal Processor, it provides a smooth desktop experience for consumers, and opens the door to new applications for industrial customers.

For the first time, this is a full-size Raspberry Pi computer using silicon built inhouse at Raspberry Pi. The RP1 "southbridge" provides the bulk of the I/O capabilities for Raspberry Pi 5 and delivers a step change in peripheral performance and functionality. Aggregate USB bandwidth is more than doubled, yielding faster transfer speeds to external UAS drives and other high-speed peripherals; the dedicated two-lane 1Gbps MIPI camera and display interfaces present on earlier models have been replaced by a pair of four-lane 1.5Gbps MIPI transceivers, tripling total bandwidth, and supporting any combination of up to two cameras or displays; peak SD card performance is doubled, through support for the SDR104 high-speed mode; and for the first time. the platform exposes a single-lane PCI Express 2.0 interface, providing support for highbandwidth peripherals.

Please note the Pi 5 is a significant redesign, and Raspberry Pi 4 cases will not fit.

- Official Raspberry Pi 5 case easy snap-fit case for your Pi 5
- Official Raspberry Pi 5 power supply can give up to 5A (27W) of current with a 1.5m long cable, and a USB C connector
- <u>Micro HDMI cable</u> connect the onboard micro HDMI sockets to standard HDMI displays.