

A Raspberry Pi 4 Model B is shown on a white desk, connected to a black USB keyboard and a black USB mouse. A red laser pointer is directed at the board, and a red light is visible on the desk surface.

As you can see there is multiple part to the Raspberry Pi and I'm going to be listening them.

1. 40 pin General-purpose Input/output header - This part is the longest part on the Raspberry pi and its purpose is to act as a physical connection and allowing the Pi to send signals to a device like LED's.
2. 2.4/5GHz Wi-Fi Bluetooth 5.0 - this device is used for Wi-Fi the 2.5Ghz provides my internet access, has a longer range allowing connection to other rooms, and it can connect far from a router. the 5Ghz provides faster internet speeds, less interference, and better connection.
3. Micro SD Card Slot - It is used as primary storage and holding the operating system, user files and the applications.
4. 2-Lane MIPI DSI Display port - it's a 15 pin connector for connecting compatible displays and has a touchscreen or custom LCD and OLED panels.
5. USB-C Power Port 5V/3A - It's used to supply power to the device for a compatible power adapter, with 3A being the current for a stable operation and support for the peripherals also could be used for transfer and acting like a USB and will be able to share resources with other computers.
6. 2x micro HDMI ports (up to 4Kp60) - They are used for connecting to two separate displays at the same time and being able to have extended desktops or multi-monitor setups and each port can produce high resolution outputs.

7. 2-lane MIPI CSI camera port - It's used to connecting camera modules and get high-speeds, high-bandwidth video and image data for the camera sensors to the Raspberry Pi's processor for image.
8. 4-pin stereo audio - This is for connecting headphones or speakers for audio playback and also provides a video signal.
9. 2 x USB 2.0 - These are used for connecting low-bandwidth peripherals like keyboards and mic as other devices that don't need a really fast speeds.
10. 2 x USB 3.0 - These are used for connecting high-speed devices like SSDs, external hard drivers, and fast USB network adapters.
11. Gigabit Ethernet - this is used for high-speed internet and network like media servers, VPN servers, and custom routers.
12. PoE HAT Header - This is used to connect the Raspberry Pi PoE HAT to the Pi and allowing it to receive both power and network data through a single Ethernet cable.