



**40 Pin GPIO Header**- allow the user to connect and control external hardware

**Gigabit Ethernet**- a direct connection a network connection that allows transmitting data at 1 gb/s 1000mb/s

**POE Header**- Allows the raspberry Pi to receive power and network connection from a single ethernet cable

**USB 3.0 Ports**- allows connectivity with connections that specifically use the USB 3.0

**USB 3.0 Controller**- manages and handles the data transfers between the CPU and USB connected devices

**USB 2.0 Ports**- allows connections between devices that use the USB 2.0

**4-Pole 3.5mm Audio & Composite Video** - allows the device to output audio and video signals

**CSI Camera Connector**- allows a communication link between an image sensor and a host processor.

**Main Micro HDMI**- The main connection to mini HDMI supported screens

**Secondary Micro HDMI**- a secondary connection for HDMI supported screens

**USB-C 3A / 5V**- Where the charging/power is connected

**DSI Display Connector**- efficient serial connection for transmitting display data and controlling touchscreen

**MicroSD card slot**- To expand or transfer data via a physical connection to a MicroSD card

**WIFI/Bluetooth Module**- allows the device to connect to both WIFI and Bluetooth

**Broadcom CPU**-manages data flow, executes network protocols, handles security functions, and enables various applications

**LPDDR4 SDRAM**- memory in the device and provides fast data access while minimizing energy consumption