Raspberry pi Module research

https://www.aliexpress.com/item/1005 002805365890.html?spm=a2g0o.prod uctlist.0.0.1d3c5be1Rbb3k5&algo_pvi d=3e66f8ae-5ea8-4915-a2a5-3c12d8 729b44&algo_exp_id=3e66f8ae-5ea8-4915-a2a5-3c12d8729b44-5&pdp_ext _f=%7B%22sku_id%22%3A%221200 0022269774618%22%7D&pdp_npi=2 %40dis%21NZD%21%2130.96%21% 21%21%21%21%40210318b9165213 35286924393e32d0%2112000022269 774618%21sea

- -. TheRaspberry Pi PoE+ HATis a Power Over Ethernet (PoE+) accessory for theRaspberry Pi 3B+/4B. Compared to its predecessorRaspberry Pi PoE+ HAT,
- It features better cooling effect.
- By using this small HAT and some proper 802.3af/at-compliant power sourcing equipments, it is possible to provide both network connection and power supply for your Raspberry Pi in only one Ethernet cable.

https://www.aliexpress.com/item/1005 004253673308.html?spm=a2g0o.prod uctlist.0.0.a5c7d685H4xzgN&algo_pvi d=a657ed70-fa52-4aa8-a6da-55321b 22f757&algo_exp_id=a657ed70-fa52-4aa8-a6da-55321b22f757-18&pdp_ex t_f=%7B%22sku_id%22%3A%221200 0028532821796%22%7D&pdp_npi=2 %40dis%21NZD%21%21168.34%21 %21%21%21%21%402101d68d1652 1332517113920e90db%21120000285 32821796%21sea

- 2GB, 4GB, 8GB
- Free shipping
- 2022 Latest Raspberry Pi 4
 Model B

https://www.officemax.co.nz/Digital-Te chnologies-STEAM/Electronics/STEA M-Raspberry-Pi-4-Model-B-2GB-2005 719?gs=1&utm_source=google&utm_medium=organic&utm_campaign=org anic-shopping&gclid=CjwKCAjw9-KTB hBcEiwAr19ig9p7H-Y4YIAj5UV066HU 5vJ1YQjjFIGM-sSsGwrHQaCjPmsDX xuGcBoCNNIQAvD_BwE

- 1.5GHz quad-core ARM Cortex-A72 CPU
- VideoCore VI graphics
- Dual display support at resolutions up to 4K
- 4kp60 HEVC decode
- USB-C for input power, supporting 5V 3A operation
- 2x USB 3.0 and 2x USB 2.0 ports
- Conveniently backwards compatible
- 2x micro HDMI ports
- Up to 8GB RAM

Dual-band 2.4/5.0 GHz wireless LAN Bluetooth 5.0 True Gigabit Ethernet POE compatibility https://core-electronics.com.au/raspbe 1.5GHz quad-core ARM rry-pi-4-model-b-1gb.html Cortex-A72 CPU VideoCore VI graphics Hardware 4kp@60Hz HEVC decoding • True Gigabit Ethernet • 2.4 GHz and 5.0 GHz IEEE 802.11ac wireless, Bluetooth 5.0, BLE • 2 × USB 3.0 and 2 × USB 2.0 ports • 2 × Micro-HDMI ports (1 × 4kp@60Hz or 2 × 4kp@30Hz) USB-C for input power, supporting 5.1V 3A operation 3 LPDDR4 RAM options available: 1GB, 2GB, 4GB and 8GB https://www.pbtech.co.nz/product/SEV RBP0206/Raspberry-Pi-4-Model-B-4G B-LPDDR4-FIRST-28nm-Based 1GB LPDDR2 SDRAM 1GB LPDDR2 SDRAM 2.4GHz | 1.5 (2.4GHz | 1.5 (2. Extended 40 pin GPIO header Extended Extended 40 pin GPIO header Extended Extended 40 pin GPIO header Extended In Twill size HDMI, 1 X full size HDMI, 1 X fu H.264, MPEG 4 decode (1080p30), H.264 encode (1080p30), H.264 encode (1080p30), OpenGL ES 1.1, 2.0 graphics Micro SD format for loading OS & data Micro SD format for loading OS & data Micro SD format for load storage storage
 5V/2.5A DC via micro USB connector
 5V/2.5A DC via micro USB connector
 5V/3.A DC via USB type C

 5V DC via GPIO
 5V DC via GPIO
 5V DC via GPIO

 PoE enabled
 PoE enabled

https://www.amazon.com/Raspberry-Model-2019-Quad-Bluetooth/dp/B07T C2BK1X?th=1

- Broadcom BCM2711, quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1. 5GHz---4GB LPDDR4-2400 SDRAM
- 2. 4 GHz and 5. 0 GHz IEEE 802. 11B/g/n/ac Wireless LAN, Bluetooth 5. 0, double-true Gigabit Ethernet
- 2 × USB 3. 0 ports, 2 x USB
 2. 0 Ports---2 × micro HDMI ports supporting up to 4Kp60 video resolution
- 2-lane MIPI DSI/CSI ports for camera and display--4-pole stereo audio and composite video port--Micro SD card slot for loading operating system and data storage
- Requires 5. 1V, 3a power via USB Type C or gpio-poep (power over Ethernet) enabled (requires PoE hat-not included)

https://www.amazon.com/Raspberry-Pi-4-4G-Model/dp/B081YD3VL5/ref=sr_1_7?keywords=raspberry+pi+4+model+b&qid=1652134450&sprefix=raspberry+pi+4+model+%2Caps%2C258&sr=8-7

- BCM2711B0 (ARM Cortex-A72): 64-bit 1.5GHz quad-core
- RAM: 8GB
- Gigabit Ethernet
- 802.11ac 2.4GHz/5GHz dual-band NIC
- Bluetooth 5.0, BLE
- USB 3.0 x 2, USB 2.0 x 2
- micro HDMI x 2 (supports 4Kp60)
- PoE header (supports PoE HAT)
- MicroSD slot
- 3.5 mm audio jack
- 40PIN GPIO header

	 CSI camera interface DSI display interface USB Type C power supply (5V/3A or above)
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