

System

CPU	Broadcom BCM2711 QuadCore Cortex A72 (ARM v8) 64 bits SoC @ 1.5G
RAM	2 G Bytes LPDDR4 SDRAM
ROM	8 G Bytes EMMC Flash Memory
GPU	VideoCore VI (OpenGL ES 3.0, H.265 HEVC (4Kp60fps decode), H.264(1080p60fps decode)
OS	Linux OS

Connectivity

Wireless	Wifi 802.11b / g / n / ac (2.4/5GHz) (optional) Bluetooth 5.0 BLE (optional)
5G	M.2 key B USB 3.0 / PCI-E for 5G (optional)
4G	Mini-PCIe : USB 2.0 for 4G / NB-IoT / LoRa · (optional) Nano SIM Slot for 5G / 4G / NB-IoT
Ethernet	10/100/1000 Mbps Giga Lan * 1 (RJ45) · 10/100Mbps * 1 (RJ45)

Interface

USB 3.0 * 2, USB 2.0 * 2 · (optional) M.2 key M for PCIe SSD

Serial Port

Port 1: RS-232/422/485 * 1 · Port 2: RS-232/485 * 1

Digital Input / Digital Output

Digital Input	Digital Output
Digital Input * 5 Pin (Active High / Active Low Selectable) Dry contact : Logic level 0 : close to GND , Logic level 5 : open Wet contact :Logic level 0 : 0 ~ 3 V, Logic level 1 : 10 ~ 30 V	Digital Output * 1 Pin (Active High / Active Low Selectable) 120VAC @0.5A, 240VAC @0.25A, 30VDC @1A

Video Output

Micro HDMI * 1 (4Kp60fps with audio)

Mechanical & Environment

Operating Temperature : - 20 °C ~ 75 °C Storage Temperature : - 25 °C ~ 80 °C	Dimensions : 170 * 110 * 30 mm (W * D * H) Weight : 950 gm Housing : Metal.
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Power

DC 9~32V, 1000mA@12V (DC Jack or Terminal Input)
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LED

PI PWR / EMMC / Serial / DI / DO / SYS-Customer defined / 5G / 4G

Others

RTC : Real Time Clock * 1 (with Battery) Buzzer * 1 Watch Dog Timer	Reset Button * 1 MIPI CSI 2-lane * 1 (optional) Fan : DC 12V (optional)
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樹莓派 計算模組核心板底板 接口簡介

