



## Features

- Built-in Raspberry Pi CM4
- Wide Range Input Power (DC 9 ~ 32V)
- Multiple I/O Interfaces
- Powerful Computing capability
- CPU Heatsink Transfer Heat To Metal Housing
- M.2 key B for 5G (optional)
- M.2 key M for PCIe SSD / AI (optional)
- Mini-PCIe (for 4G/NB-IoT/LoRa)

## System

- CPU Broadcom BCM2711 QuadCore Cortex A72 (ARM v8) 64 bits SoC @ 1.5G
- RAM 1 / 2 / 4 / 8 G Bytes LPDDR4 SDRAM (optional)
- ROM 8 / 16 / 32 G Bytes EMMC Flash Memory (optional)
- 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  
 I2C \* 1 (on PCB)  
 SPI \* 1 (on PCB)  
 PWM \* 2 (on PCB)  
 M.2 key M for PCIe SSD (optional)

## Serial Port

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

## 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)

## Digital Input / Digital Output

- Digital Input \* 1 Pin  
 (Active High / Active Low Selectable)  
 Dry contact : Logic level 0 : close to GND ,  
 Logic level 1 : 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.

## Power

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

## LED

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

## Warranty

Warranty period : 1 year

## Order Information

WPC-632-PI CM4-B ( for M.2 KEY B )  
 WPC-632-PI CM4-M ( for M.2 KEY M )

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