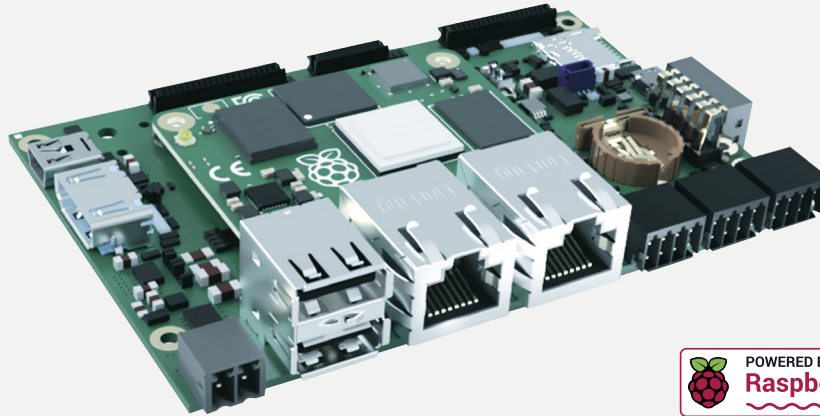


## ▶ BL Pi-Tron CM4



Board - Line

## RASPBERRY PI COMPUTE MODULE 4: YOUR PERFORMANCE BOOST

The trump card of our new Pi-Tron CM4 is the high-power Compute Module 4 by the Raspberry Pi Foundation. And an added benefit of all Raspberry Pi products is the extensive Pi community, which provides a wide range of software samples and fully translated program packages for free download.

The new Pi-Tron CM4 boasts a much faster processor and supports up to 8 GB RAM. Via an M.2 slot and a PCIe connection, various modules with the respective interface can be attached. Custom AI solutions can be implemented e.g. by using Google's Coral AI Chip or high-performance Hailo AI modules.

An FD-enabled CAN-Bus interface guarantees greater efficiency and a higher data transmission rate. Optionally, an LVDS display can be connected via an adapter board, and a Raspberry Pi standard 40-PIN GPIO header is available for expansion. The Pi-Tron CM4 also features an HDMI port for standard display devices.

### ▶ FEATURES

- ▶ Highly scalable computing power
- ▶ Optional pre-certified WLAN/Bluetooth connectivity
- ▶ M.2 B key slot with PCIe connectivity
- ▶ Rapid migration from Raspberry Pi prototype to series product
- ▶ High-performance interfaces for harsh industrial applications
- ▶ 24 V power supply

### ▶ CUSTOMER BENEFITS

- ▶ Industrial-use interfaces, customizable
- ▶ Ready for custom AI solutions
- ▶ Fast prototype construction
- ▶ Large community through open source software
- ▶ Short time to market
- ▶ Good value for money

### ▶ APPLICATIONS

- ▶ Human-machine interface
- ▶ Industrial communication
- ▶ M2M (machine-to-machine) Gateway
- ▶ Automation
- ▶ POS/POI displays
- ▶ Infotainment/Entertainment
- ▶ Portable systems

## ► TECHNICAL DATA

FUNCTION	STANDARD-EQUIPMENT
<b>MICROPROCESSOR</b>	
CPU	Broadcom BCM2711 BCM2711, Quad Core Cortex®-A72, 64-bit SoC @1.5 GHz H.265 (HEVC) up to 4Kp60 decode, H.264 up to 1080p decode, 1080p30 encode OpenGL ES 3.0 graphic
<b>MEMORY</b>	
LPDDR4 RAM	1 GB/2 GB/4 GB/8 GB
Flash*	0 GB Lite and microSD Card Slot, 8 GB/16 GB/32 GB
FRAM	32 kbit
<b>COMMUNICATION</b>	
Ethernet	1x 1 Gbit/s, 1x 10/100 Mbit/s
USB	2x 2.0 Host, 1x 2.0 OTG (necessary to program eMMC)
I/O	28x GPIO, supports up to 5x UART, 5x I <sup>2</sup> C, 5x SPI, 2x PWM, 1x SDIO (4 Bit)
DIO	2x DIO (24 V/up to 800 mA)
Serial	1x RS232, 1x RS485 (Modbus capable)
CAN	1x 2.0 FD
WLAN/Bluetooth	Optional WLAN/Bluetooth 2.4 GHz/5.0 GHz IEEE 802.11b/g/n/ac
M.2	B-Key 2242 / 3042, PCIe x 1 (Gen2), USB 2.0, I <sup>2</sup> C
<b>DISPLAY/TOUCH</b>	
LCD Interface	1x 2-lane DSI Display Interface (up to 1 Gbit/s per lane) 1x HDMI 2.0 (up to 4Kp60 are supported)
Touch	1x I <sup>2</sup> C, 1x USB
Camera interface	1x 2-lane MIPI CSI Camera Interface
<b>OTHER</b>	
Power supply	24 V DC ±20 %
Power consumption	TBD
Temperature range	0 °C ... +55 °C
Operating system	Raspbian Linux (not preinstalled)
Form factor	105.5 x 69.6 mm
External RTC	1x on Baseboard
RTC buffering	Batterie on Baseboard CR1220
Debug	1x Console
Expansion plugs	Raspberry Pi GPIO Header 40-Pin

\* When using eMMC memory, booting from the SD card is not possible

## ► YOUR CONTACT

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