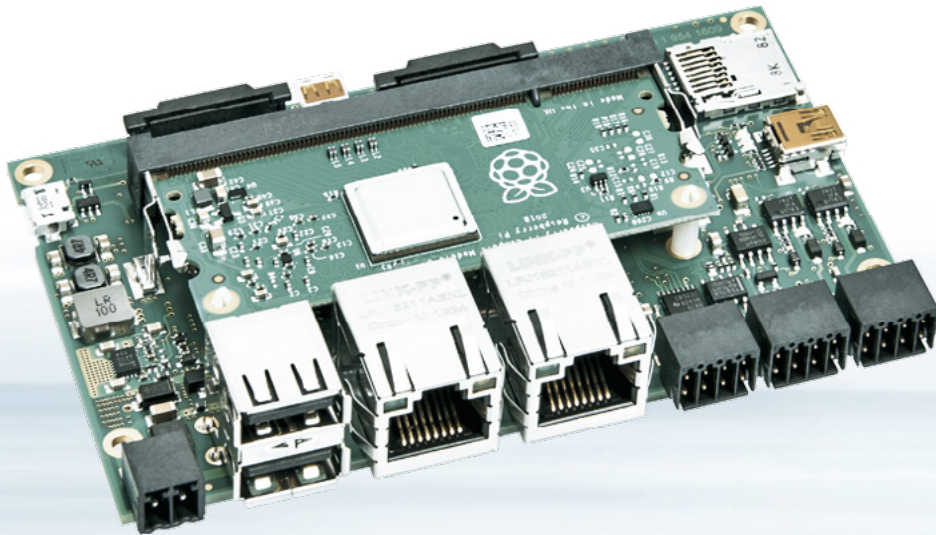


BL PI-TRON CM3+



Industrial Raspberry Pi

- ▶ Highly scalable computing power
- ▶ Standard Technology
- ▶ Possible Customization
- ▶ Rapid migration from Pi prototype to series product
- ▶ High-performance interfaces for harsh industrial applications

POSSIBILITIES START HERE



BL PI-TRON CM3+ Industrial Raspberry Pi

Raspberry Pi is one of the best known embedded Linux computers in the world. Its success began in the maker community, but it has long become an industry favorite. The software pool created and maintained by a highly active community is an ideal basis for creating rapid-prototyping applications, and plenty of how-to videos on project implementation are available.

Based on the Raspberry Pi Compute Module, Kontron Electronics has developed a solution tailored to your requirements, equipped with numerous industrial interfaces and functions. Touch displays

can be connected directly via DSI or micro-HDMI, and 24 V power supply facilitates integration with industry applications.

These features give you a tool for rapid and secure development and testing of your applications. As an optional service, we can adapt the evaluation board to your specific needs. Where required, we develop an entirely new board to achieve minimum serial production costs and optimal dimensions. Make the BL Pi-Tron CM3+ baseboard your companion in the industrial Raspberry Pi world!

CLIENT BENEFITS

- ▶ Industrial interfaces
- ▶ Fast prototype construction
- ▶ Adaptable on demand (cutting, form factor, housing)
- ▶ Large community through open source software
- ▶ Short Time to Market
- ▶ Good value for money

APPLICATIONS

- ▶ Human-Machine Interface
- ▶ Industrial Communication
- ▶ M2M (machine-to-machine)
- ▶ Building Automation
- ▶ POS displays
- ▶ Infotainment/Entertainment
- ▶ Portable Systems

TECHNICAL DATA

FUNCTION		STANDARD
MICROPROCESSOR	CPU	Broadcom BCM2837B0 4x Arm® Cortex®-A53 @1,2 GHz, 3D Video Engine
MEMORY	LPDDR2-RAM eMMC* SD-Card FRAM	1 GByte Compute module CM3+ 8 GByte/16 GByte/32 GByte Compute module CM3+ Lite, 1x micro-SD card slot for operating system 16 kbit
COMMUNICATION	ETHERNET USB I/O DIO SERIAL CAN	2x 10/100 Mbit/s 2x 2.0 Host 2x UART, 2x I²C, 2x SPI, 28x GPIO, 2x PWM, 1x SDIO (4 Bit) 4x DIO (24 V/up to 800 mA) 1x RS232, 1x RS485 1x 2.0
DISPLAY / TOUCH	LCD INTERFACE TOUCH CAMERA INTERFACE	1x 2-lane DSI Display Interface (up to 1 Gbit/s per lane) (DSI 1) 1x micro-HDMI 1.3a 1080p@30fps 1x I²C, 1x USB 1x 2-lane CSI Camera Interface (CSI 1)
OTHER	POWER SUPPLY POWER CONSUMPTION TEMPERATURE RANGE OPERATING SYSTEM FORM FACTOR EXTERNAL RTC RTC BUFFERING DEBUG EXPANSION PLUGS	24 V DC ±20 % 3,4 W...9,6 W (without peripherals) 0 °C...+55 °C Raspbian Linux 105,5 x 67 mm (4,3") 1x on Baseboard Battery on Baseboard CR1220 1x Console Raspberry Pi GPIO Header 40 Pin

* Versions with eMMC memory do not feature an SD card slot

Your contact

Kontron Electronics GmbH
Kantstraße 10
72663 Großbettlingen, Germany
Tel.: + 49 7022 4057-0
Fax: + 49 7022 4057-22
info@kontron-electronics.de
www.kontron-electronics.de

Global Headquarters

Kontron S&T AG
Lise-Meitner-Str. 3-5
86156 Augsburg, Germany
Tel.: + 49 821 4086 0
Fax: + 49 821 4086 111
info@kontron.com
www.kontron.com