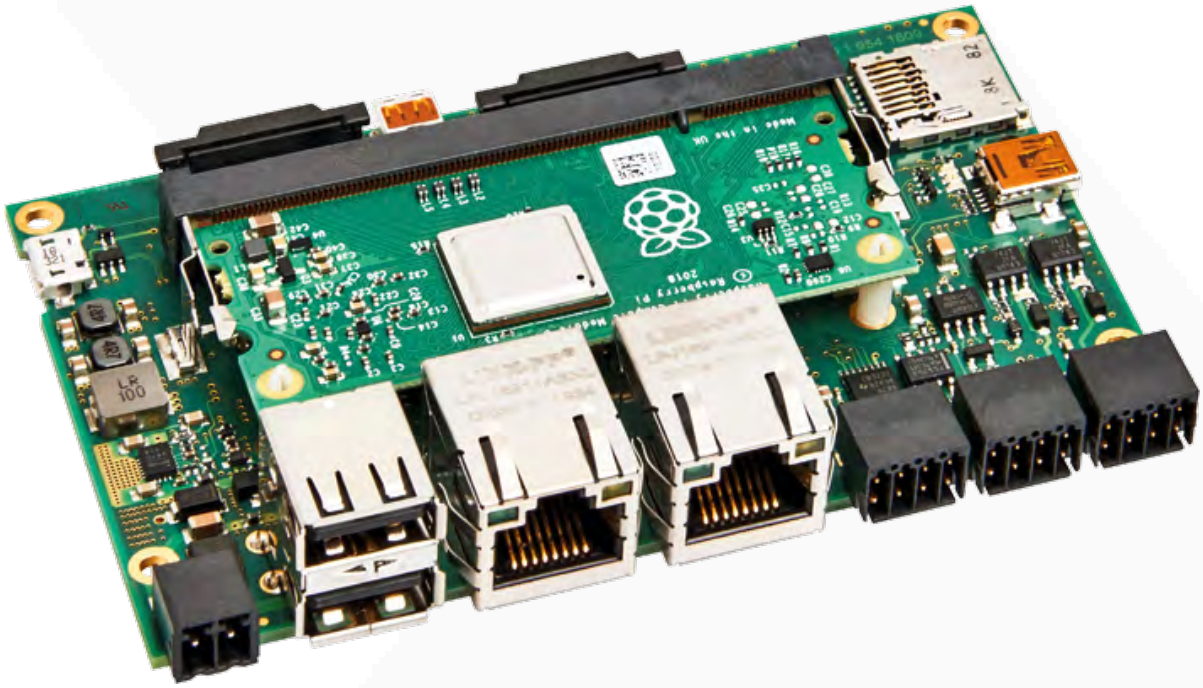
BL Pi-Tron CM3+

Board-Line



Powered by Raspberry Pi

Raspberry Pi Design Partner

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

kontron
The Power of IoT

Technical Information

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 32 GByte optional Lite/8 GByte (Lite without eMMC only with microSD Card) Compute Module CM3+ Lite, 1x micro SD-Card Slot for Operating System 2 kB
COMMUNICATION	ETHERNET USB I/O DIO SERIAL CAN	2x 10/100 Mbit/s 2x 2.0 Host 28x GPIO, supports up to 2x UART, 2x I²C, 2x SPI, 2x PWM, 1x SDIO (4 Bit) 4x DIO (24 V/up to 800 mA) 1x RS232, 1x RS485 1x CAN 2.0B
DISPLAY / TOUCH	LCD INTERFACE TOUCH CAMERA INTERFACE	1x DSI 2-lane (up to 1 Gbit/s per lane - Rpi-DSI1) 1x Micro-HDMI 1.3a (up to 1080p @30fps) 1x I²C 1x CSI 2-lane up to 1 Gbit/s per lane - MIPI Rpi-CSI1)
OTHER	POWER SUPPLY POWER CONSUMPTION TEMPERATURE RANGE OPERATING SYSTEM FORM FACTOR RTC RTC BUFFERING DEBUG EXPANSION PLUGS	24 V DC ±20 % 3,4 W...9,6 W (without peripherals) 0 °C...+55 °C (without condensation) Raspbian Linux (not preinstalled) 105,5 x 67 mm (4,3") 1x on Baseboard CR1220 1x Console Raspberry Pi GPIO Header 40 Pin

* Versions with eMMC memory do not feature an microSD Card Slot

Product Highlights

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

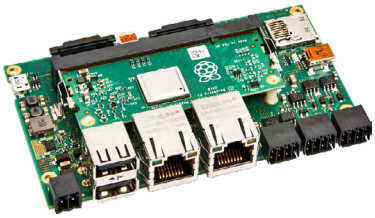
Applications

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

Products Board-Line

PRODUCT NAME	ARTICLE NO.	OPTIONS
BL Pi-Tron CM3+ lite 1 GB/microSD slot	40099 196	CODESYS® Ready, GPIO Header
BL PI-TRON CM3+ 1 GB/8 GB EMMC	40099 197	CODESYS® Ready, GPIO Header
BL PI-TRON CM3+ 1 GB/32 GB EMMC	40099 198	CODESYS® Ready, GPIO Header
AC CONNECTOR SET BL/AL/DL	30099 003	Order in addition to BL Pi-Tron CM3+

CODESYS licenses can be purchased directly from CODESYS.



Products Automation-Line

PRODUCT NAME	ARTICLE NO.	OPTIONS
AL Pi-Tron CM3+ lite 1 GB/microSD slot	50099 043	CODESYS® Ready
AL Pi-Tron CM3+ 1 GB/8 GB eMMC	50099 055	CODESYS® Ready
AL PI-TRON CM3+ 1 GB/32 GB EMMC	50099 057	CODESYS® Ready
AC CONNECTOR SET BL/AL/DL	30099 003	Order in addition to AL Pi-Tron CM3+

CODESYS licenses can be purchased directly from CODESYS.



Development Kit

PRODUCT NAME	ARTICLE NO.	OPTIONS
DK Pi-Tron CM3+ 1 GB/microSD Card Slot	50099 060	BL Pi-Tron CM3+ 1 GB/microSD Card Slot, Power Supply, Cables, Debug Adapter



About Kontron

Kontron AG is a leading IoT technology company. For more than 20 years, Kontron has been supporting companies from a wide range of industries to achieve their business goals with intelligent solutions. From automated industrial operations, smarter and safer transport to advanced communications, connectivity, medical, and energy solutions, the company delivers technologies that add value for its customers. With the acquisition of Katek SE in early 2024, Kontron significantly strengthens its portfolio with the new GreenTec division, focusing on solar energy and eMobility, and grows to around 8,000 employees in over 20 countries worldwide. Kontron is listed on the SDAX® and TecDAX® of the German Stock Exchange.

For more information, please visit: **www.kontron.com**

About Kontron Electronics

Kontron Electronics GmbH is a full-service provider in the electronics industry, offering comprehensive services in development, rapid prototyping, and manufacturing. The company's portfolio includes proprietary and customer-specific products, development and engineering services for complex electronic components, modules, and systems, as well as production and assembly services for complete assemblies. The company is part of the Kontron AG technology group.

For more Information please visit: **www.kontron-electronics.com**

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