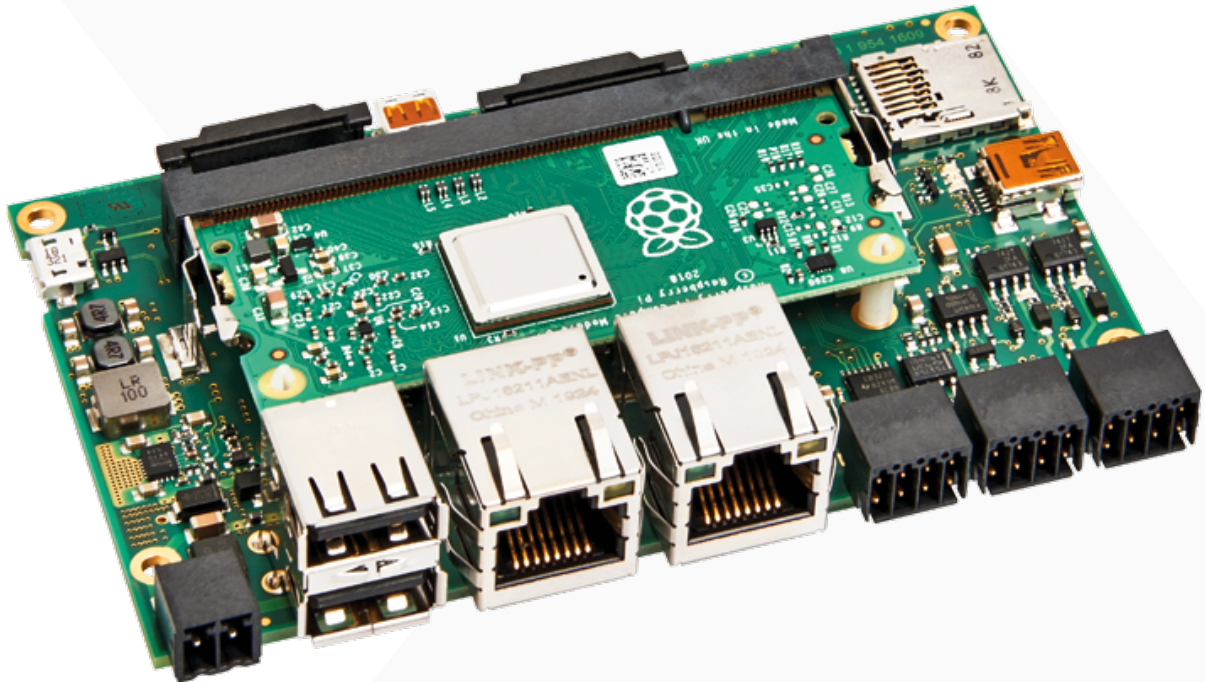


# BL Pi-Tron CM3+ Board-Line



## 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

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 (16 kbit)
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 I <sup>2</sup> C, 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 I <sup>2</sup> C, 1x USB 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 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

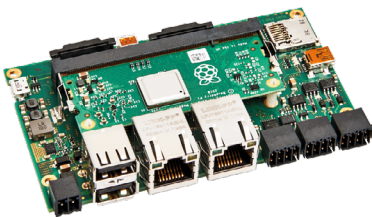
### Client Benefits

- 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

PRODUCT NAME	ARTICLE NO.	OPTIONS
BL Pi-Tron CM3+ lite 1 GB/microSD slot	40099 196	CODESYS® Raspberry License, GPIO Header
BL PI-TRON CM3+ 1 GB/8 GB EMMC	40099 197	CODESYS® Raspberry License, GPIO Header
BL PI-TRON CM3+ 1 GB/32 GB EMMC	40099 198	CODESYS® Raspberry License, GPIO Header
CODESYS® FOR RPI WITH DONGLE	30099 004	CODESYS® license key on USB Dongle
AC CONNECTOR SET BL/AL/DL	30099 003	Order in addition to BL Pi-Tron CM3+



## Products Automation-Line

PRODUCT NAME	ARTICLE NO.	OPTIONS
AL Pi-Tron CM3+ lite 1 GB/microSD slot	50099 043	CODESYS® Raspberry License
AL Pi-Tron CM3+ 1 GB/8 GB eMMC	50099 055	CODESYS® Raspberry License
AL PI-TRON CM3+ 1 GB/32 GB EMMC	50099 057	CODESYS® Raspberry License
CODESYS® FOR RPI WITH DONGLE	30099 004	CODESYS® license key on USB Dongle
AC CONNECTOR SET BL/AL/DL	30099 003	Order in addition to AL Pi-Tron CM3+



## 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 is a global leader in IoT/Embedded Computing Technology (ECT) and offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontron provides secure and innovative applications for a wide variety of industries. As a result, customers benefit from accelerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications.

For more information, please visit: [www.kontron.com](http://www.kontron.com)

## About Kontron Electronics

Kontron Electronics GmbH is a full-service provider in the field of electronics, development and manufacturing services. Our business portfolio includes proprietary and client-specific products, development and design services for complex electronics components, modules and systems, as well as production and assembly services for entire devices. The company is part of the technology corporation Kontron AG.

For more information please visit: [www.kontron-electronics.com](http://www.kontron-electronics.com)

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