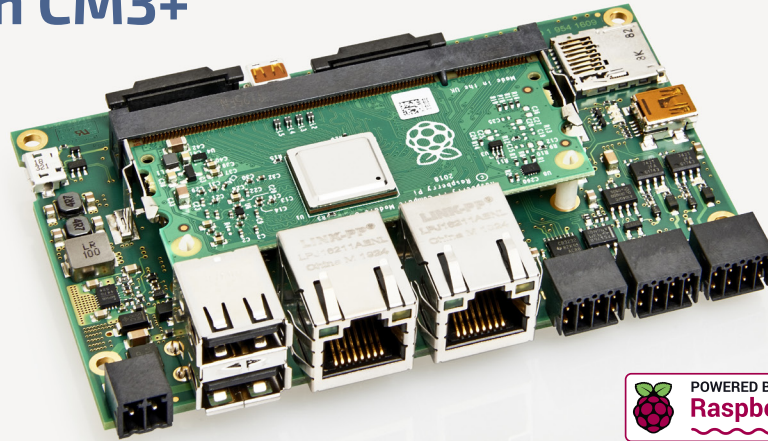


▶ BL Pi-Tron CM3+



Board - Line

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!

▶ FEATURES

- ▶ Highly scalable computing power
- ▶ Standard technology
- ▶ Possible customization
- ▶ Rapid migration from Raspberry Pi prototype to series product
- ▶ High-performance interfaces for harsh industrial applications
- ▶ 24 V power supply

▶ 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

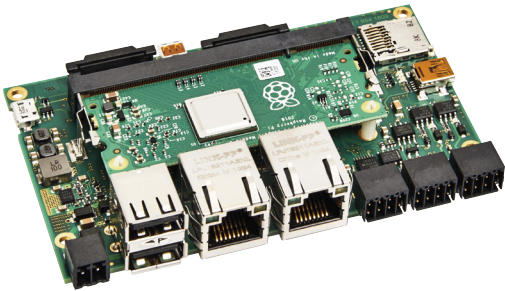
► TECHNICAL DATA

FUNCTION	STANDARD-EQUIPMENT
MICROPROCESSOR	
CPU	Broadcom BCM2837B0 4x Arm® Cortex®-A53 @1.2 GHz, 3D Video Engine
MEMORY	
LPDDR2-RAM	1 GB
eMMC*	Compute module CM3+: 8 GB/32 GB
SD card	Compute module CM3+ Lite, 1x microSD Card Slot for operating system
FRAM	16 kbit
COMMUNICATION	
Ethernet	2x 10/100 Mbit/s
USB	2x 2.0 Host
I/O	2x UART, 2x I ² C, 2x SPI, 28x GPIO, 2x PWM, 1x SDIO (4-bit)
DIO	4x DIO (24 V/up to 800 mA)
Serial	1x RS232, 1x RS485
CAN	1x CAN 2.0
DISPLAY/TOUCH	
LCD interface	1x 2-lane DSI Display Interface (up to 1 Gbit/s per lane, DSI 1) 1x Micro-HDMI 1.3a 1080p @30 fps
Touch	1x I ² C, 1x USB
Camera interface	1x 2-lane CSI Camera Interface (CSI 1)
OTHER	
Power supply	24 V DC ± 20 %
Power consumption	3.4 W...9.6 W (without peripherals)
Temperature range	0 °C ... +55 °C
Operating system	Raspbian Linux (not preinstalled)
Form factor	105.5 x 67 mm (4.3")
External RTC	1x on Baseboard
RTC buffering	Batterie on Baseboard CR1220
Debug	1x Console
Expansion plugs	Raspberry Pi 40-Pin GPIO-Header

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

▶ PRODUCTS BOARD-LINE

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.	CONTENTS
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



POSSIBILITIES START HERE



► 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 Kontron and the technology corporation S&T.

► YOUR CONTACT

Kontron Electronics GmbH

Max-Planck-Straße 6
72636 Frickenhausen, Germany
Tel.: +49 7022 4057-0
Fax: +49 7022 4057-22
info@kontron-electronics.de
www.kontron-electronics.de

► GLOBAL HEADQUARTERS

Kontron Europe GmbH

Gutenbergstraße 2
85737 Ismaning, Germany
Tel.: +49 821 4086-0
Fax: +49 821 4086-111
info@kontron.com
www.kontron.com