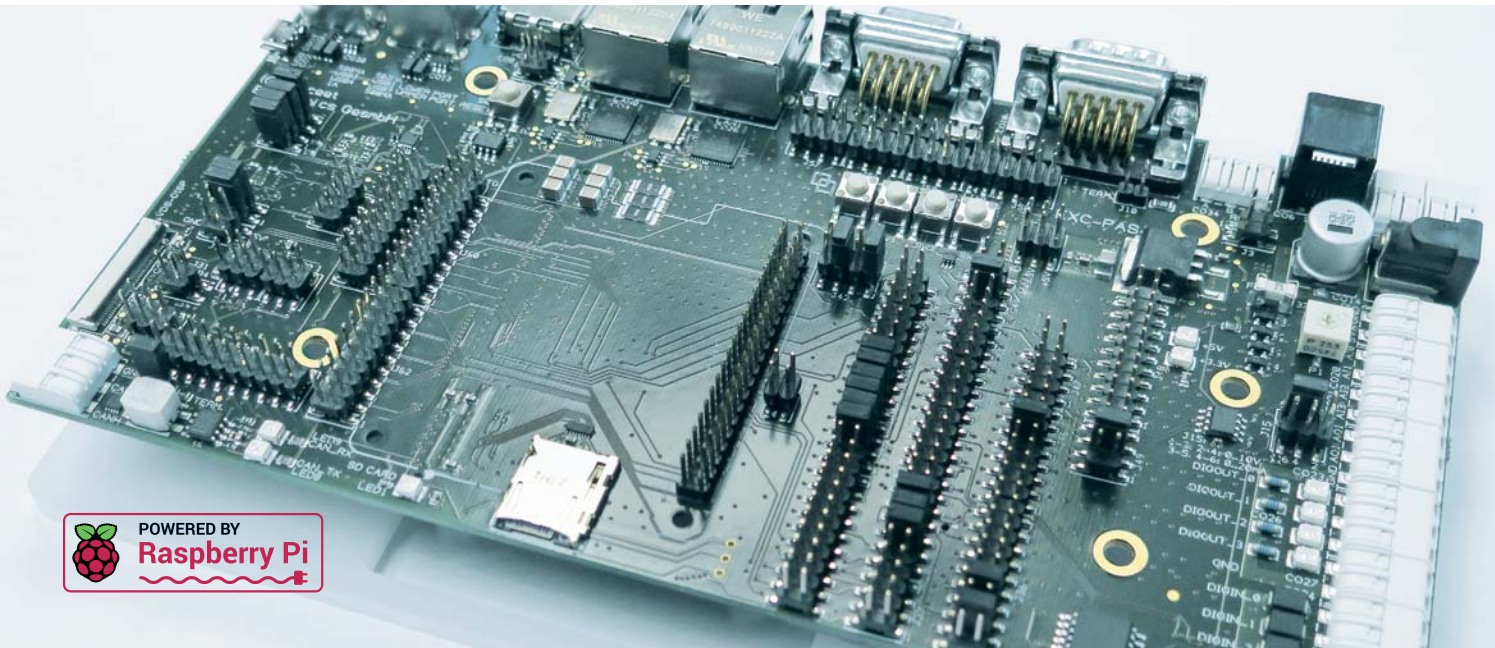


RASPBERRY GOES INDUSTRIAL

Customized module for industrial applications



Raspberry Pi INDUSTRIAL STARTERKIT

You want to build a fast prototype with the option to easily migrate to an approved product? You already work with Raspberry Pi, but still avoid from using it as a serial product? We have the solution for you. exect develops an industrial electronic module based on a raspberry pi single board computer. Our customers use the plug-and-play solution and benefit from quick and easy implemen-

tation and a secure connection of their devices. Additionally, users take advantage of a standard technology which is customized to their demands and a faster time-to-market for their products. For a quick start we offer our developer board. Kontron supports you along the entire value chain from prototyping to series manufacturing.

FEATURES

- ▶ Standard Technology
- ▶ High grade of customization
- ▶ Quick migration from the PI prototype to industrial serial product
- ▶ Heavy duty interfaces for rough industrial environment
- ▶ Using Industrial TFT Displays with LVDS
- ▶ 24V power supply

CUSTOMER BENEFITS

- ▶ Industrial Interfaces
- ▶ Fast Prototype
- ▶ Individually customizable (interfaces/form factor/housing)
- ▶ Secure Element on board
- ▶ Vast Community thanks to Open Source Software
- ▶ Fast Time to Market
- ▶ Good price/performance ratio

APPLICATIONS

- ▶ Industrial Communication
- ▶ Human Machine Interface
- ▶ M2M (machine-to-machine)
- ▶ Home Automation
- ▶ POS displays
- ▶ Infotainment/Entertainment
- ▶ Portable Systems
- ▶ Data Gateway
- ▶ Sensor Head

POSSIBILITIES START HERE



kontron
S&T Group

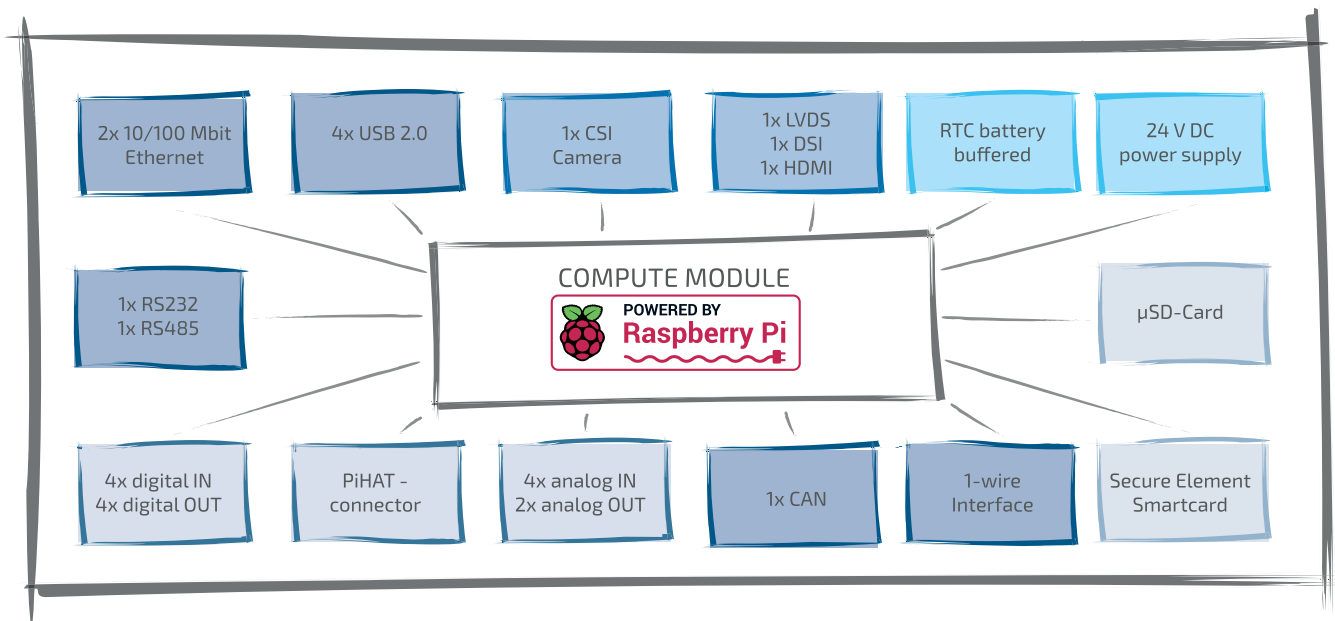
TECHNICAL INFORMATION

POWER SUPPLY	power supply provided in the kit 10–24V DC
SUPPORTED MODULES	The compute module CM3 and CM3L (without Flash) BCM2837 CPU with 4x1,4 Ghz ARM-CORTEX A53 and 1 GB RAM Internal Watchdog RTC with battery (for secure Application)
INTERFACE GENERAL	1x Micro SDCARD Slot 1x 1-Wire Interface Dallas/Maxim 1x Smartcard reader with SIM Card holder (only on R2, for secure Application) 1x 4-lane CSI Camera Interface
INTERFACE	1x Can 2.0B 2x Ethernet 10/100Mbit 4x USB 2.0 Host 1x RS232 1x RS485 1x PI HAT Connector (40-pin as by Raspberry Pi 2/3) 1x CSI Camera Interface
INTERFACE DISPLAY	1x HDMI 1.3a 1x Display Interface LVDS (only on R2) 1x Display Interface DSI 4 lanes
I/O'S	4x 24V/0.5A DC OUT 4x 24V DC IN (opto coupled) 4x Push-Buttons on the board 4x Analog IN 0-10V, 4-20mA, 10 Bit 2x Analog OUT 0-10V, 12 Bit Reset Button for Compute Module
SIZE	Approx. 215x125mm

Raspberry Pi INDUSTRIAL STARTERKIT INCLUDES

- ▶ Raspberry Pi industrial board
- ▶ 8GB SD-Card with preconfigured Raspbian OS
- ▶ AC/DC supply

* Note. Some interfaces are sharing pins and cannot operate simultaneously, depending on the configuration.



YOUR CONTACT

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