KBox A-330-RPI

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Compact Industrial Box PC based on Raspberry Pi for the Top Hat Rail – For Control & Gateway Applications

▶ Based on BROADCOM BCM2837B0 Quad Core Arm® A53 processor / Raspberry Pi Module CM3+

▶ Supported by huge community based open source software pool

▶ Fanless compact design for DIN rail, ideal for control cabinet applications

▶ Industrial grade, 8+ years availability

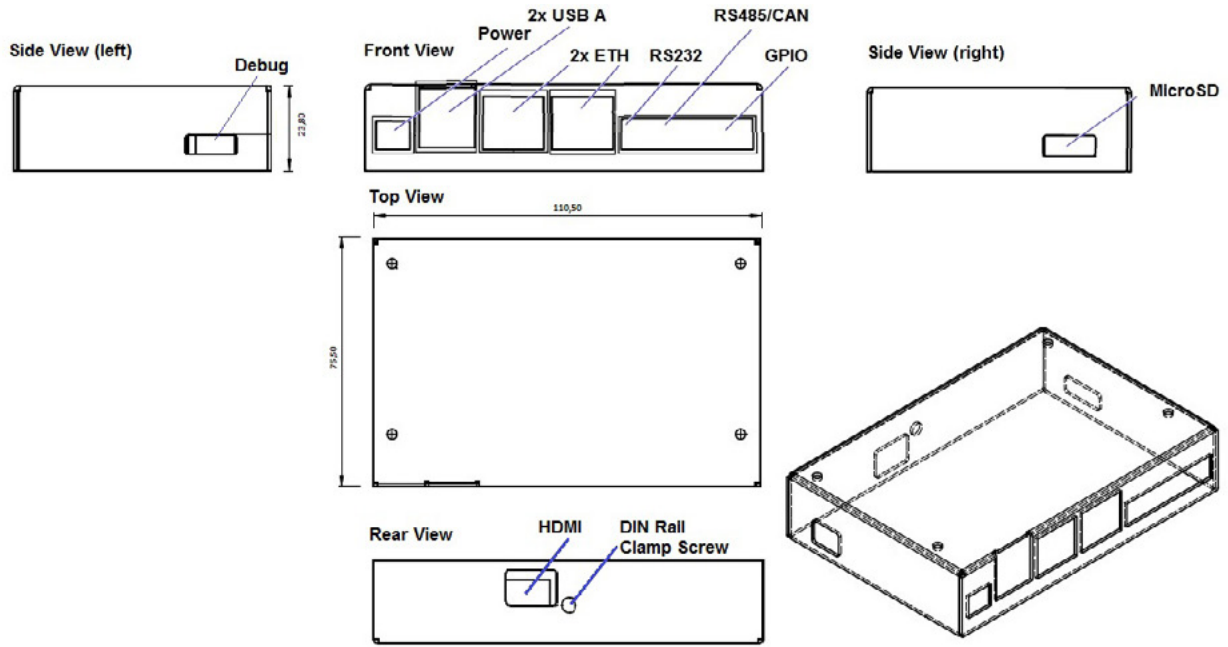POSSIBILITIES START HERE   **kontron**
S&T Group

KBox A-330-RPI

Based on the BROADCOM BCM2837B0 Quad Core Arm® A53 processor/Raspberry Pi Compute Module CM3+ the Kontron KBox A-330-RPI was developed as a compact industrial grade Box PC for the top hat rail, ideal for cost sensitive control and gateway applications.

The KBox A-330-RPI is supported by a huge software pool offered by the Raspberry Pi Community. Furthermore the Box PC is industrial grade and thanks to its fanless and compact design perfectly suited for control cabinet applications. The system offers numerous interfaces allowing for the connection of various communication layers. RS232/RS485 serial interfaces and the CAN bus expansion are provided for local data collection or linking up to the sensor- or machine environment.

▶ TECHNICAL INFORMATION

PROCESSOR	CPU	BROADCOM BCM2837B0 Quad Core Arm® A53
PLATFORM CONTROLLER HUB	SYSTEM CHIPSET	Integrated
MEMORY	TECHNOLOGY CAPACITY	LPDDR2 1 GB, soldered
GRAPHICS	GRAPHICS ENGINE	VideoCore IV OpenGL-ES 1.1/2.0, Full HD 250MHz
FRONT I/O	USB ETHERNET SERIAL PORTS OTHERS	2x USB 2.0 (1x configurable to OTG) 2x Fast Ethernet 1x RS232, 1x RS485 or CAN 4x Digital IOs
REAR I/O	GRAPHICS PORTS	Micro HDMI
STORAGE	INTERNAL DRIVES	MicroSD Card or internal eMMC (8, 32 GByte, others on project request)
SOFTWARE SUPPORT	LINUX	Raspbian
MECHANICAL	CONSTRUCTION COOLING DIMENSIONS (HxWxD) WEIGHT MOUNTING	Stainless steel Fanless 111 x 25 x76 mm Approx. 0,26 kg for mounting on 35mm mounting rail acc. to EN 60715
ENVIRONMENT	OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK ALTITUDE	0 °C to +55 °C (32 °F to 131 °F) -20 °C to +80 °C (-4 °F to 176 °F) 93% @ 40 °C, non-condensing 5-500 Hz, 1G acc. IEC 60068-2-6 half sine, 15 g, 11 ms acc. IEC 60068-2-27 5000 m (16400 ft)
POWER SUPPLY	INPUT VOLTAGE RANGE	24 V DC (9..32V DC), typ. 5W, max 12W (without digital IO)
APPROVALS	CERTIFICATIONS	CE

Side View (left) — Debug

Front View — Power, 2x USB A, 2x ETH, RS232, RS485/CAN, GPIO

Side View (right) — MicroSD

Top View — 110,50 × 75,50

Rear View — HDMI, DIN Rail Clamp Screw

▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
KBOX A-330 RASPBERRY PI	KBox A-330-RPI	Raspberry Pi CM3+ lite based: 1 G RAM, no eMMC, SD card slot, 2x USB 2.0, 2x Fast Ethernet, RS232, CAN or RS485, 4x Dig-IO, uHDMI, DIN rail housing
	KBox A-330-RPI-8	Raspberry Pi CM3+ lite based: 1 G RAM, 8 GByte eMMC, SD card slot, 2x USB 2.0, 2x Fast Ethernet, RS232, CAN or RS485, 4x Dig-IO, uHDMI, DIN rail housing
	KBox A-330-RPI-32	Raspberry Pi CM3+ lite based: 1 G RAM, 32 GByte eMMC, SD card slot, 2x USB 2.0, 2x Fast Ethernet, RS232, CAN or RS485, 4x Dig-IO, uHDMI, DIN rail housing

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