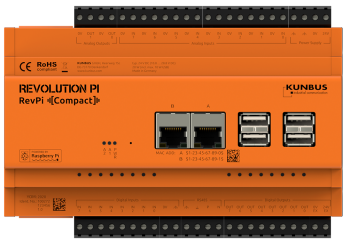
REVOLUTION PI

RevPi Compact



Technical Data

Item No.: 100272

Housing dimensions (H x W x D)	90 x 160,6 x 58 mm
Housing type	DIN rail housing (for DIN rail version EN 50022)
Housing material	Polycarbonate
Weight	approx. 290 g (incl. connectors)
Protection class	IP20
Power supply - system	typ. 24 V DC (10.8 ... 28.8 V DC)
Power supply - digital outputs	typ. 24 V DC (11.4 ... 28.8 V DC)
Maximum power consumption	20 W (incl. max. 10 W USB)
Approved operating temperature	-20 °C ... +55 °C
Approved storage temperature	-40 °C ... +85 °C
Max. relative humidity (at 40 °C)	up to 93 % (non-condensing)
Interfaces	2 x RJ45 10/100 Ethernet (using separate MAC addresses)
	4 x USB A (total current draw from all sockets max. 2 A)
	1 x RS485 max. 500 kbps, termination switchable by software (not galvanically isolated)
	1 x Micro-USB (solely for image transfer to eMMC)
	1 x HDMI
Connectors	2-, 4- and 8-pole screw-type terminal
Processor	Broadcom BCM2837B0 quad-core ARM Cortex A53
Clock rate	1.2 GHz
Processor cooling	Passive with heat sink
RAM	1 GB
Flash memory	8 GB
EERAM persistent memory	2 kB
Number of digital inputs	8
Rated voltage of digital inputs	24 V DC
Input threshold	At 24 V DC compatible according to EN 61131-2 to type I and III sensors
Number of digital outputs	8
Digital output type	High-side with 10 k pull down resistor, short-circuit proof (internal temperature switch-off), Potential separation system/ digital outputs

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Maximum current load to the outputs	Per output: 500 mA @ 24 V DC (resistive load!), Sum of all outputs: max. 2 A @ 24 V DC (resistive load!)
Number of analog inputs	8
Type of analog inputs	0 ... 10 V DC, single ended, 16 Bit at piControl, 21 Bit raw value, 2.5 mA current source activatable by software
Number of analog outputs	2
Type of analog outputs	0 ... 10 V, short-circuit proof, protection against backfeeding 8-bit resolution, 1 % accuracy
Maximum current load of the analog outputs	10 mA (10 V DC @ 1 k)
Software connection of inputs and outputs	via GPIOs and process image
EMC interference emission	according to EN 61000-6-4
EMC interference resistance	according to EN 61000-6-2
Buffer time RTC	min. 24 h
Optical display	3 status LEDs (bi-color), two of them freely programmable
Conformity	CE, RoHS, REACH, UKCA