

REVOLUTION PI

RevPi Compact

Article No.: 100272



Technical Data

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)
IP Code	IP20
Power supply - device	typ. 24 V DC (10.8 ... 28.8 V DC)
Power supply - digital outputs	typ. 24 V DC (11.4 ... 28.8 V DC)
Max. power consumption	20 W (incl. max. 10 W USB)
Operating temperature	-20 °C +55 °C
Storage temperature	-40 °C +85 °C
Humidity (at 40 °C)	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 input channels	8
Input type	24 V DC
Input thresholds	At 24 V DC compatible according to EN 61131-2 to type I and III sensors

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Number of digital output channels	8
Digital output type	High-side with 10 k pull down resistor, short-circuit proof (internal temperature switch-off), Potential separation system/digital outputs
Maximum current per output	Per output: 500 mA @ 24 V DC (resistive load!), Sum of all outputs: max. 2 A @ 24 V DC (resistive load!)
Number of analog input channels	8
Analog input type	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 output channels	2
Analog output type	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 interface of inputs and outputs	Via GPIOs and process image
EMC interference emission	according to EN 61000-6-4
EMC immunity	according to EN 61000-6-2
Buffer time RTC	min. 24 h
Optical indicator	3 status LEDs (bi-color), two of them freely programmable
RoHS conformity	Yes
CE conformity	Yes