REVOLUTION PI

RevPi Flat S



Technical Data

Item No.: 100371

Housing dimensions (H x W x D)	90 x 106 x 70 mm
Housing type	DIN rail housing for TH35 according to DIN EN 60715
Housing material	Polycarbonate
Weight	Approx. 256 g (incl. connectors)
Protection class	IP20 / NEMA Class 1
Power supply	Typ. 24 V DC (12,0 … 28,8 V DC), reverse-polarity protected
Maximum power consumption	11 W (incl. 5 W USB)
Approved operating temperature	-20 … +55 °C
Approved storage temperature	-40 … +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Interfaces	4 x RJ45 10/100 Ethernet, two or four separate MAC addresses for LAN0/switch or LAN0 ... LAN3; LAN0: 1 x Ethernet; LAN1: 3 x Ethernet switched or single (DSA)
	2 x USB A (total current draw from all sockets max. 1 A)
	1 x Micro-USB (solely for image transfer to eMMC)
	2 x RS485 (RJ14 socket and 3-pole plug) max. 500 kbps, galvanically isolated, termination switchable by software
	1 x RP-SMA socket (WLAN 2,4/5 GHz, BLE 5.0)
Connectors	2-, 3- and 5-pole screw/spring-loaded terminal
Processor	Broadcom BCM2711, quad-core Arm Cortex-A72
Clock rate	1.5 GHz
Processor cooling	Passive with heat sink
RAM	1 GB
Flash memory	32 GB
Trusted Platform Module	TPM 2.0 Infineon OPTIGA™ TPM SLB 9670
Number of digital outputs	1
Output type	Potential-free relay contact
Maximum current output channel	2 A @ 30 V DC
Number of analog inputs	1
Analog input type	0 ... 10 V DC or 0 ... 20 mA, single-ended, 16 bit at piControl, 21 bit raw value
Number of analog outputs	1

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Analog output type	0 ... 10 V DC, short-circuit proof, protection against backfeeding (max. +Ub = 28,8 V), 12 bit resolution, gain error 3 % of measured value, offset error +/-50 mV
Maximum current load of the analog output	10 mA (10 V DC @ 1k)
Software connection 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 display	6 status LEDs (bi-color), 5 of them freely programmable
Conformity	CE, RoHS, UKCA