REVOLUTION PI

RevPi Connect 4



Technical Data

Item No.: 100376 (2 GB / 8 GB)
Item No.: 100377 (WLAN / 2 GB / 8 GB)
Item No.: 100378 (4 GB / 32 GB)
Item No.: 100379 (WLAN / 4 GB / 32 GB)
Item No.: 100395 (8 GB / 32 GB)
Item No.: 100380 (WLAN / 8 GB / 32 GB)

Housing dimensions (H x W x D)	96 x 45 x 110.5 mm
Housing type	DIN rail housing for TH35 according to DIN EN 60715
Housing material	Polycarbonate
Weight	Approx. 197 g / 224 g (incl. connectors)
Protection class	IP20
Power supply	10.8 ... 28.8 V DC[1]
Maximum power consumption	20 W (incl. 2 x 800 mA USB load)[2]
Approved operating temperature	-25 … +55 °C
Approved storage temperature	-40 … +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Interfaces	2 x USB A 3.2 Gen 1
	2 x RJ45 Gbit Ethernet
	1 x RS485 screw-type terminal
	1 x Micro-USB (solely for image transfer to eMMC)
	1 x Micro-HDMI 2.0a (4K)
	2 x PiBridge (connectors at the left and at the right side)
	1 x RP-SMA socket for WLAN 2.4/5 GHz, BLE 5.0 (Article No.: 100377, 100379, 100380)
Connectors	1 x 4-pole screw-type terminal for RS485
	1 x 4-pole screw-type terminal for relay contact and signal input
	1 x 4-pole screw-type terminal for power supply
Processor	Broadcom BCM2711, quad-core Arm Cortex-A72
Clock rate	1.5 GHz
Processor cooling	Passive with heat sink
RAM	2 GB LPDDR4 (Article No.: 100376, 100377), 4 GB LPDDR4 (Article No.: 100378, 100379), 8 GB LPDDR4 (Article No.: 100395, 100380)

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Flash memory	8 GB (Article No.: 100376, 100377), 32 GB (Article No.: 100378, 100379, 100395, 100380)
Trusted Platform Module	TPM 2.0 Infineon OPTIGA™ TPM SLB 9670
WLAN / BT	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless; BT 5.0, BLE (Article No.: 100377, 100379, 100380)
Number of digital inputs	1
Digital input type	24 V DC control voltage (e.g. for power-good signal of a UPS)
Input threshold	Approx. 10 V DC (0 -> 1) resp. 7 V DC (1 -> 0); input current 2.4 mA (according to IEC 61131-2)
Number of digital outputs	1
Output type	Opto-decoupled solid state relay, normally open, max. 30 V, 300 mA DC, any polarity
Software interface of input and output	Via GPIOs and process image
Hardware watchdog	Watchdog in RTC device, freely configurable watchdog character device
Compatible RevPi modules	All RevPi I/O modules can be connected via the PiBridge system bus. Up to 5 modules can be connected as well to the left as to the right side of the device.
EMC interference emission	According to IEC 61000-6-4 Emission standard for industrial environments
EMC immunity	According to IEC 61000-6-2 Immunity standard for industrial environments
Mean time between failures (MTBF) at 25 °C	30.7 years
Mean time between failures (MTBF) at 50 °C	20.5 years
RTC buffer	CR2032 lithium battery, lifetime approx. 10 years
Optical display	6 status LEDs; 5 x red/green/blue, freely programmable, 1 x red/green
Conformity	CE, UKCA
UL certification	UL-File-No. E494534 Note: The device may only be supplied from circuits that comply with Class 2 or Safety Extra Low Voltage (SELV) according to Class 9.4 of UL 61010-1.

[1] The bridging time required by EN 61131-2 of voltage dips of at least 10 ms and the max. USB output current are only guaranteed with a supply voltage 24 V -15 % / +20 %.

[2] The average power consumption without USB load varies greatly and depends on the use of the interfaces, the GPU and the CPU. It is usually well below 4 watts without HDMI.