

REVOLUTION PI

RevPi Connect 5

Technical Data



Item No.: 100412, 100413, 100414, 100415, 100416, 100417, 100418, 100419, 100420

Housing dimensions (H x W x D)	96 x 45 x 115 mm (incl. RP-SMA socket)
Housing type	DIN rail housing for TH35 according to DIN EN 60715
Housing material	Polycarbonate
Weight	Approx. 290 g (incl. connectors)
Protection class	IP20
Power supply	Typ. 24 V DC (10.8 ... 28.8 V DC) ¹
Maximum power consumption	22 W (incl. 2 x 900 mA USB load) ²
Approved operating temperature	-25 ... +60 °C ³
Approved storage temperature	-40 ... +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Interfaces	0 / 1 x RS485 (see Variants) 0 / 1 / 2 x CAN (see Variants) 2 x RJ45 Gbit Ethernet 1 x RP-SMA socket for WLAN + BT (see Variants) 2 x USB A 3.2 Gen 1 1 x USB-C (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)
Connectors	1 x 4-pole screw-type terminal (X2 connector) for RS485 (see Variants) 1 x 4-pole screw-type terminal (X2 and X3 connector) for CAN (see Variants) 1 x 4-pole screw-type-terminal (X4 connector) for power supply
Processor	Broadcom BCM2712, quad-core Arm Cortex-A76
Clock rate	2.4 GHz
Processor cooling	Passive with heat sink
RAM	4 / 8 GB LPDDR4 (see Variants)
Flash memory	32 GB
Trusted Platform Module	TPM 2.0 Infineon OPTIGA™ TPM SLB 9670
RS485	Data rate: max. 921 600 baud Electrically isolated Termination resistor controllable via software

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CAN	Data rate: CAN FD 5 Mbps max., CAN 2.0 1 Mbps max. Modes: mixed CAN 2.0B and CAN FD mode, CAN 2.0B mode Electrically isolated Termination resistor controllable via software
WLAN / BT	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless; BT 5.0, BLE (see Variants)
Hardware watchdog	Watchdog in RTC device, freely configurable watchdog character device
Compatible RevPi modules	All RevPi I/O modules, RevPi gateways and the RevPi Ethernet-Adapter can be connected via the PiBridge system bus. Up to 5 modules can be connected to both the left and 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
RTC buffer	CR2032 lithium battery, lifetime approx. 10 years
Optical display	5 status LEDs; 5 x red/green/blue, freely programmable, 1 x red/green
Conformity	CE, UKCA

¹ The maximum USB output current is only guaranteed when supplied with 24 V DC -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 6 watts without HDMI.

³ The maximum operating temperature applies to typical device usage, but not to maximum device load.

Variants

Item No.:	RAM	eMMC Memory	WLAN + BT	RS485	CAN
100412	4 GB	32 GB	-	x	-
100413	4 GB	32 GB	x	x	-
100414	4 GB	32 GB	-	x	1 x
100415	4 GB	32 GB	x	x	1 x
100416	8 GB	32 GB	-	x	-
100417	8 GB	32 GB	x	x	-
100418	8 GB	32 GB	-	x	1 x
100419	8 GB	32 GB	x	x	1 x
100420	8 GB	32 GB	x	-	2 x

Errors and omissions excepted.

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V1.1
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