REVOLUTION PI
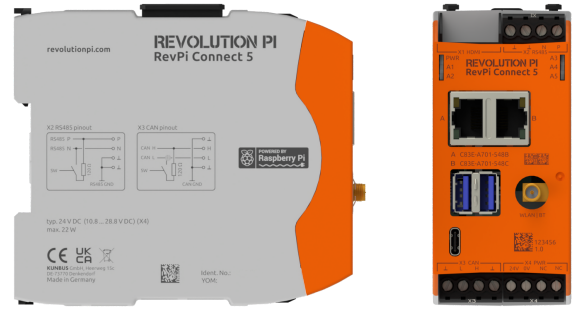
RevPi Connect 5

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 srew-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
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	-	×	-
100413	4 GB	32 GB	×	×	-
100414	4 GB	32 GB	-	×	1 ×
100415	4 GB	32 GB	×	×	1 ×
100416	8 GB	32 GB	-	×	-
100417	8 GB	32 GB	×	×	-
100418	8 GB	32 GB	-	×	1 ×
100419	8 GB	32 GB	×	×	1 ×
100420	8 GB	32 GB	×	-	2 ×

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