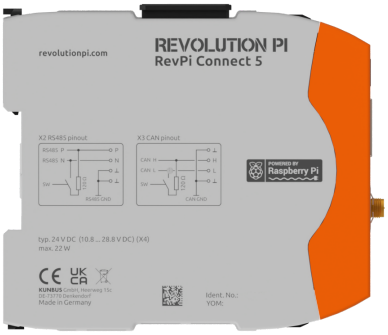
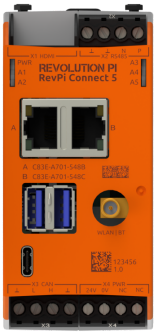
Technical Data

RevPi Connect 5





Housing dimensions (H × W × D)	96 × 45 × 115 mm (incl. RP-SMA socket)
Housing type	DIN rail housing for TH35 according toDIN 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 × 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 × RS485 (see Variants) • 0 / 1 / 2 × CAN (see Variants) • 2 × RJ45 Gbit Ethernet • 1 × RP-SMA socket for WLAN + BT (see Variants) • 2 × USB A 3.2 Gen 1 • 1 × USB-C (solely for image transfer to eMMC) • 1 × Micro-HDMI 2.0a (4K) • 2 × PiBridge (connectors at the left and right side)
Connectors	• 1 × 4-pole screw-type terminal (X2 connector) for RS485 (see Variants) • 1 × 4-pole screw-type terminal (X2 and X3 connector) for CAN (see Variants) • 1 × 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
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 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	6 status LEDs; 5 × red/green/blue, freely programmable, 1 × 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.

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	–	✔	✔
100415	4 GB	32 GB	✔	✔	✔
100416	8 GB	32 GB	–	✔	–
100417	8 GB	32 GB	✔	✔	–
100418	8 GB	32 GB	–	✔	✔
100419	8 GB	32 GB	✔	✔	✔
100420	8 GB	32 GB	✔	–	✔ (2 ×)

https://revolutionpi.com/shop/en/revpi-connect5

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Errors and omissions excepted.

[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 depending on the use of the interfaces, GPU, and CPU. It is usually well below 6 W without HDMI.

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