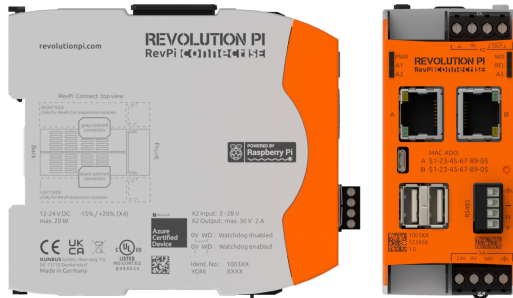


Technical Data

RevPi Connect SE



Housing dimensions (H × W × D)	96 × 45 × 110.5 mm
Housing type	DIN rail housing (for DIN rail version EN 50022)
Housing material	Polycarbonate
Weight	Approx. 197 g / 224 g (incl. connectors)
Protection class	IP20 / NEMA Class 1
Power supply	12 ... 24 V DC -15 % / +20 %, reverse-polarity protected
Maximum power consumption	20 Watt (incl. 1 A total USB output current) ^[1]
Approved operating temperature	-25 ... +55 °C
Approved storage temperature	-40 ... +85 °C
Max. relative humidity (at 40 °C)	Up to 93 % (non-condensing)
Interfaces	<ul style="list-style-type: none"> • 2 × USB A (total current draw from both sockets max. 1 A)^[2] • 2 × RJ45 10/100 Ethernet (using separate MAC addresses) • 1 × RS485 screw-type terminal • 1 × Micro-USB (solely for image transfer to eMMC) • 1 × Micro HDMI 2.0a (4K) • 1 × PiBridge system bus • 1 × ConBridge system bus
Connectors	<ul style="list-style-type: none"> • 1 × 4-pole screw-type terminal for relay contact and signal input • 1 × 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	1 GB LPDDR4

Flash memory	8 GB (Item No.: 100368), 16 GB (Item No.: 100369), 32 GB (Item No.: 100370)
Number of digital inputs	1
Digital input type	24 V control voltage (e.g. for power-good signal of a UPS)
Input threshold	Approx. 3.0 V (0 → 1) resp. 2.3 V (1 → 0)
Input protection	Against overvoltage, negative voltages
Number of digital outputs	1
Output type	Relay contact, approval up to 30 V switching voltage (e.g. for power supply of a router)
Maximum current load of the contact	2 A @ 30 V DC (resistive load!)
Software interface of input and output	via GPIOs and process image. Output is optionally switched by hardware watchdog.
Hardware watchdog functionality	Can be disabled by bridging the 4-pole screw-type terminal. Reset by toggling a GPIO or alternatively a bit in the process image.
Hardware watchdog interval	Trigger after approx. 60 seconds without toggling the reset bit.
Compatible RevPi modules	<ul style="list-style-type: none"> • All RevPi I/O modules can be connected via the PiBridge system bus. • All RevPi Con modules can be connected via the ConBridge system bus. • Not compatible with RevPi Gateways
ESD protection	4 kV / 8 kV (according to EN 61131-2 and IEC 61000-6-2)
EMI tests	Passed (according to EN 61131-2 and IEC 61000-6-2)
Surge/Burst tests	Passed (according to EN 61131-2 and IEC 61000-6-2)
Buffer time RTC	Min. 24 h
Optical display	6 status LEDs (bi-color), two of them freely programmable
Conformity	CE, RoHS, REACH, 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	Compatible with RevPi Gateways
100368	1 GB	8 GB	No
100369	1 GB	16 GB	No
100370	1 GB	32 GB	No



<https://revolutionpi.com/shop/en/revpi-connect-se>

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Errors and omissions excepted.

[1] 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 W without HDMI.

[2] 1 A USB output current (sum of both USB outputs) is only available with input voltages >11 V. The bridging time of voltage dips of at least 10 ms required by EN 61131-2 is only guaranteed with a supply voltage of 20.4 ...28.8 V. At 12 V input voltage this time decreases drastically, especially when driving loads by USB ports.