

REVOLUTION PI

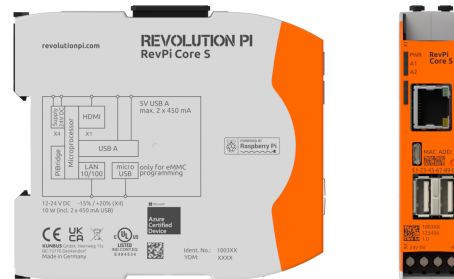
RevPi Core S

Technical Data

Item No.: 100359 (8 GB version)

Item No.: 100360 (16 GB version)

Item No.: 100361 (32 GB version)



Housing dimensions (H x W x D)	96 x 22,5 x 110,5 mm
Housing type	DIN rail housing (for DIN rail version EN 50022)
Housing material	Polycarbonate
Weight	approx. 115 g
Protection class	IP20 / NEMA Class 1
Power supply	12 ... 24 V DC -15 % / +20 %, reverse-polarity protected
Maximum power consumption	10 W (incl. 900 mA total USB load) ¹
Approved operating temperature	-25 °C ... +55 °C
Approved storage temperature	-40 °C ... +85 °C
Max. relative humidity (at 40 °C)	up to 93 % (non-condensing)
Interfaces	2 x USB A (total current draw from both sockets together max. 900 mA) ² 1 x RJ45 10/100 Ethernet 1 x Micro-USB (solely for image transfer to eMMC) 1 x Micro-HDMI 2.0a (4K) 2 x PiBridge system bus
Connectors	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	1 GB LPDDR4
Flash memory	8 GB (Article No.: 100359) / 16 GB (Article No.: 100360) / 32 GB (Article No.: 100361)
Compatible RevPi modules	All RevPi IO modules and RevPi gateway modules can be connected via the PiBridge system bus.
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	3 status LEDs (bi-color), two of them freely programmable

Errors and omissions excepted.

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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.

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 watts without HDMI.

² 900 mA 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.