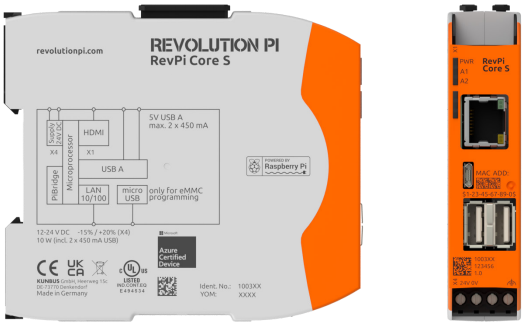
REVOLUTION PI

RevPi Core S

Article no.: 100359 (8 GB version)
Article no.: 100360 (16 GB version)
Article no.: 100361 (32 GB version)



Technical Data

Housing dimensions (HxWxD)	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
Power supply	12-24 V DC -15 % / +20 %, reverse polarity protected [1]
Max. power consumption	10 W (incl. 900 mA total USB load) [2]
Operating temperature	-25 °C to +55 °C
Storage temperature	-40 °C to +85 °C
Humidity (40 °C)	up to 93 % (non-condensing)
Interfaces	2 x USB A (Total current consumption from both sockets 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 modules for system expansion	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 indicator	3 status LEDs (bi-color), two of them freely programmable
Conformity	CE, RoHS
UL certification	Yes, 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] 900 mA USB output current (sum of both USB outputs) is only available at input voltages >11 V. The bridging time required by EN 61131-2 of voltage dips of at least 10 ms is only guaranteed with a supply voltage of 20.4 to 28.8 V. At 12 V input voltage this time decreases drastically, especially when driving loads by USB ports.

[2] The average power consumption without USB loads vary widely and depends on the specific use of interfaces, GPU and CPU. Not using the HDMI interface keeps the power consumption of generally below 4 W.