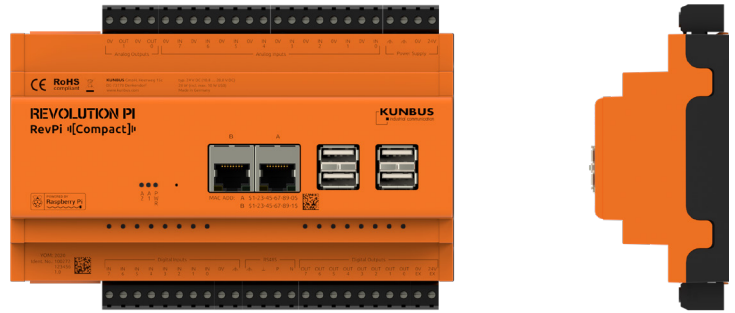


REVOLUTION PI

RevPi Compact

Article No.: 100272



Technical Data

| | |
|----------------------------------|---|
| Housing dimensions (H x W x D) | 90 x 160.6 x 58 mm |
| Housing type | DIN rail housing (for DIN rail version EN 50022) |
| Housing material | Polycarbonate |
| Weight | approx. 290 g (incl. connectors) |
| IP Code | IP20 |
| Power supply - device | typ. 24 V DC (10.8 ... 28.8 V DC) |
| Power supply - digital outputs | typ. 24 V DC (11.4 ... 28.8 V DC) |
| Max. power consumption | 20 W (incl. max. 10 W USB) |
| Operating temperature | -20 °C +55 °C |
| Storage temperature | -40 °C +85 °C |
| Humidity (at 40 °C) | 93 % (non-condensing) |
| Interfaces | 2 x RJ45 10/100 Ethernet (using separate MAC addresses), 4 x USB A (total current draw from all sockets max. 2 A), 1 x RS485 max. 500 kbps, termination switchable by software (not galvanically isolated), 1 x Micro-USB (solely for image transfer to eMMC), 1 x HDMI |
| Connectors | 2-, 4- and 8-pole screw-type terminal |
| Processor | Broadcom BCM2837B0 quad-core ARM Cortex A53 |
| Clock rate | 1.2 GHz |
| Processor cooling | Passive with heat sink |
| RAM | 1 GB |
| Flash memory | 8 GB |
| EERAM persistent memory | 2 kB |
| Number of digital input channels | 8 |
| Input type | 24 V DC |
| Input thresholds | At 24 V DC compatible according to EN 61131-2 to type I and III sensors |

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| | |
|--|--|
| Number of digital output channels | 8 |
| Digital output type | High-side with 10 k pull down resistor, short-circuit proof (internal temperature switch-off), Potential separation system/digital outputs |
| Maximum current per output | Per output: 500 mA @ 24 V DC (resistive load!), Sum of all outputs: max. 2 A @ 24 V DC (resistive load!) |
| Number of analog input channels | 8 |
| Analog input type | 0-10 V DC, single ended, 16 Bit at piControl, 21 Bit raw value, 2.5 mA current source activatable by software |
| Number of analog output channels | 2 |
| Analog output type | 0-10 V, short-circuit proof, protection against backfeeding 8-bit resolution, 1 % accuracy |
| Maximum current load of the analog outputs | 10 mA (10 V DC @ 1 k) |
| Software interface of inputs and outputs | Via GPIOs and process image |
| EMC interference emission | according to EN 61000-6-4 |
| EMC immunity | according to EN 61000-6-2 |
| Buffer time RTC | min. 24 h |
| Optical indicator | 3 status LEDs (bi-color), two of them freely programmable |
| RoHS conformity | Yes |
| CE conformity | Yes |