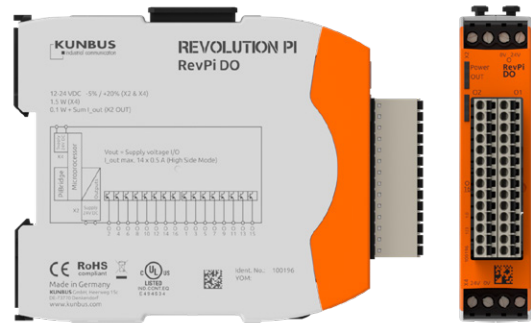


REVOLUTION PI

RevPi DO

Article No.: 100196



Technical Data

| | |
|-----------------------------------|---|
| 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. 100 g / 130 g (incl. connectors) |
| IP Code | IP20 |
| Power supply | 12-24 V DC -5 % / +20 % (X2 and X4) ¹ |
| Max. power consumption | 1.5 Watt (X4/power supply) |
| Operating temperature | -40 °C....+55 °C |
| Storage temperature | -40 °C....+85 °C |
| Humidity (at 40 °C) | 93 % (non-condensing) |
| Connectors | 2 x 4-pole screw-type terminal for power supply 2 x 14-pin socket connectors with spring clamp contacts (0.2 - 1.5 mm ²) for IOs, pitch 3.5 mm (Wieland Item No. 27.630.4453.0) |
| Optical indicator | 3 status LEDs (bi-color) |
| Number of digital output channels | 16 |
| Output type | Galvanically isolated from the system bus, individually configurable as direct digital output with high-side or push-pull drivers as well as a PWM output ² |
| Maximum current per output | 500 mA (high-side mode), 100 mA (push-pull mode) |
| PWM frequency | Collectively selectable for all outputs: 40 Hz, 80 Hz, 160 Hz, 200 Hz, 400 Hz ² |
| Alarm | Thermal shutdown or short circuit of outputs (individually for each output) |
| Dual watchdog function | In the event of communication failure with the controller (after 50 ms or 500 ms ³) or internal communication with the CPU (after 9 ms, hardware-controlled), the outputs are reset to zero |
| Output protection | According to EN 61131-2 (IEC 61000-4-4, -5, -6, and -2) against short circuit, overload, burst, ESD |

¹ Two independent supply voltage sources must be available for galvanic isolation of the outputs.

² The PWM pulse width is stored as a value from 0 to 100 in the process image in 1 byte. The maximum resolution of the conversion of this value in % by the module depends on the PWM frequency: 40 Hz / 1%, 80 Hz / 2%, 160 Hz / 4%, 200 Hz / 5%, 400 Hz / 10%.

³ 50 ms for all RevPi DO with software version 1.4 or older.
500 ms for all RevPi DO with software version 1.5 or younger.

REVOLUTION PI

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Technical Data

| | |
|---|---|
| Compatible modules for system expansion | All RevPi base module, expansion modules and RevPi Gate modules (connected via overhead PiBridge connector) |
| Protection of the power supply inputs | Reverse polarity protected, transient overvoltages |
| EMC interference emission | according to EN 61000-6-4 |
| EMC immunity | according to EN 61000-6-2 |
| RoHS conformity | Yes |
| CE conformity | Yes |
| UL certification | Yes, UL-File-No. E494534 |