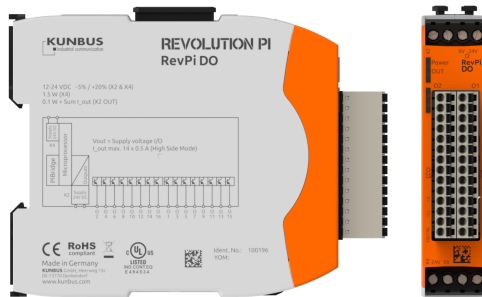


# Technical Data

## RevPi DO



Item no.: 100196

Housing dimensions (H × W × D)	96 × 22.5 × 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) <sup>[1]</sup>
Max. power consumption	1.5 W (X4/power supply)
Operating temperature	-40 ... +55 °C
Storage temperature	-40 ... +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Connectors	<ul style="list-style-type: none"> <li>• 2 × 4-pole screw-type terminal for power supply</li> <li>• 2 × 14-pin socket connectors with spring clamp contacts (0.2 ... 1.5 mm<sup>2</sup>) for IOs, pitch 3.5 mm (Wieland Item No. 27.630.4453.0)</li> </ul>
Optical indicator	3 × bi-color status LEDs
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. <sup>[2]</sup>
Maximum current per output	500 mA (high-side mode), 100 mA (push-pull mode)
PWM frequency	Collectively selectable for all outputs simultaneously: 40 Hz, 80 Hz, 160 Hz, 200 Hz, 400 Hz <sup>[2]</sup>
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 <sup>[3]</sup> ) 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
Compatible modules for system expansion	All RevPi base modules and RevPi Gate modules can be connected via an 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
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.



<https://revolutionpi.com/shop/en/digital-output-expansion-module>

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Changes and errors excepted.

[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.