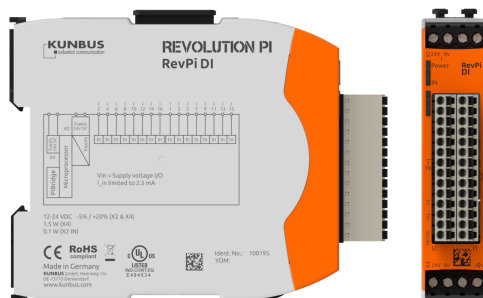


Technical Data

RevPi DI



Item No.: 100195

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) ^[1]
Max. power consumption	1.5 W (X4/power supply)
Operating temperature	-40 ... +55 °C
Storage temperature	-40 ... +85 °C
Humidity (at 40 °C)	93 % (non-condensing)
Connectors	• 2 × 4-pole screw-type terminals for power supply • 2 × 14-pin spring clamp connectors (0.2 ... 1.5 mm²) for IOs, pitch 3.5 mm (Wieland Item No. 27.630.4453.0)
Optical indicator	3 status LEDs (bi-color)
Number of digital input channels	16
Input type	Galvanically isolated from the system bus, individually configurable as direct digital input, counter rising edge, counter falling edge, or together with neighboring input as encoder. ^[2]
Input current limitation	2.4 mA (at 24 V power supply)
Input thresholds	At 24 V compatible according to EN 61131-2 to Type I and III sensors.
Digital debounce circuit	Collectively adjustable for all inputs: off, 25 µs, 750 µs or 3 ms.
Maximum frequency resolution of the counter inputs	2 kHz (corresponding to 500 Hz encoder sequence)

Alarm	For auxiliary voltages below 19 V and below 9 V, overtemperature.
Input protection	According to EN 61131-2 (IEC 61000-4-4, -5, -6, and -2) against burst, RF injection, external voltages -3 ... +36 V.
Compatible modules for system expansion	All RevPi base modules, expansion modules, and RevPi Gate modules (connected via overhead PiBridge connector).
Protection of the power supply inputs	Reverse polarity protected, transient overvoltages.
Surge/Burst tests	Passed (according to EN 61131-2 and IEC 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-input-expansion-module>

KUNBUS GmbH

Magirusstr. 7

73760 Ostfildern

Germany

+49 (0)711 400 91 500

Website: <https://www.revolutionpi.com>

E-mail: info@kunbus.com

Changes and errors excepted.

[1] Two independent power supply sources must be available for galvanic isolation of the inputs.

[2] For each module, a maximum of 6 inputs can be defined as 6 counters or 12 inputs as 6 decoders. Counters and decoders are stored as 32-bit integers in the process image. Reset of counters/encoders via ioctl calls from the kernel driver piControl.