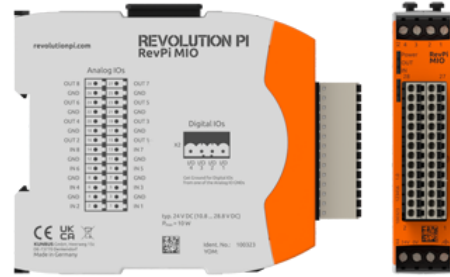


# REVOLUTION PI

## RevPi MIO

### Technical Data

Item No.: 100323



Standard	EN 61131-2
Housing dimensions (H x W x D)	96 x 22.5 x 110.5 mm
Housing type	DIN rail housing for TH35 according to DIN EN 60715
Housing material	Polycarbonate
Weight	Approx. 115 g
Protection class	IP20
Power supply	24 V DC (10.8 ... 28.8 V DC)
Maximum power consumption	10 W (system)
Approved operating temperature	-20 ... +55 °C
Approved storage temperature	-40 ... +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Interfaces	8 analog inputs 8 analog outputs 4 digital inputs/outputs

#### Analog Inputs

Measurement range	0 ... 10 V DC
Input impedance	>900 k $\Omega$ <sup>1</sup> 20 k $\Omega$ <sup>2</sup>
Max. overall input error	$\pm 0.3$ % (of full-scale range)
Sample rate	8 ms / 125 Hz
Resolution	1 mV (process image)
Galvanic isolation 24 V supply	Yes <sup>1</sup> No <sup>2</sup>
Analog input modes	Analog input, logic level input

# REVOLUTION PI

## RevPi MIO

### Analog Outputs

Output voltage	0 ... 10 V DC
Max. output current	10 mA 10 V @ 1 K
Max. overall output error	±0.3 % (of full-scale range)
Data control rate	1 PiBridge cycle
Resolution	4.48 mV
Galvanic isolation 24 V supply	Yes <sup>1</sup> No <sup>2</sup>
Analog output modes	Analog output, logic level output

### Digital Inputs/Outputs

Description	Level detection (threshold 1 V) <sup>1</sup> Type 3 inputs according to EN 61131-2 <sup>2</sup> : <ul style="list-style-type: none"><li>– Threshold from high to low: 7 V</li><li>– Threshold from low to high: 10 V</li><li>– Input current 2.4 mA</li></ul>
GPO [PIN OUT]	$U_{\text{high}} = 22 \text{ V}$ (with $I_{\text{high}} < 20 \text{ mA}$ ) <sup>1</sup> $U_{\text{high}} = \text{positive supply voltage}$ , max. 200 mA <sup>2</sup> Short-circuit proof Feedback via GPI [PIN IN] (error message possible)
Digital modes	Digital input, digital output, PWM input, PWM output, pulse input, pulse output, encoder input
EMC interference emission	According to EN 61000-6-4 interference emission for industrial environments <sup>1</sup> According to EN 61000-6-3 interference emission of devices in residential areas <sup>2</sup>
EMC immunity	According to EN 61000-6-2; a shielded cable is required for the analog I/Os for cable lengths over 3 m.
Optical display	3 status LEDs (bi-color)
Conformity	CE, RoHS

<sup>1</sup> Applies up to product revision 1.1 (indicated on front of housing).

<sup>2</sup> Applies to product revision 1.2 (indicated on front of housing).