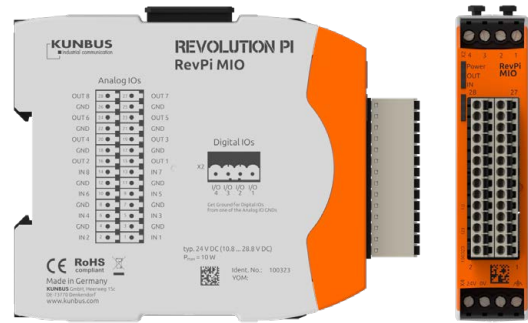


REVOLUTION PI

RevPi MIO

Article No.: 100323



Technical Data

Standard	EN 61131-2	
Housing dimensions (H x B 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. 115 g	
IP Code	IP20	
Power supply	24 V DC (10.8 ... 28.8 V DC)	
Current consumption	410 mA maximum load	
Max. power consumption - system	10 W	
Operating temperature	-20...+55 °C	
Storage temperature	-40...+85 °C	
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
	Rated voltage:	24 V DC
	Input impedance:	> 100 kOhm
	ADC type:	Single ended
	Max. overall input error:	±0.3 % (of full-scale range)
	Sample rate:	8 ms / 125 Hz
	Resolution:	1 mv (process image)
	Galvanic Isolation:	No
Analog input modes	Analog input, logic level input	
Analog outputs	Output voltage:	0...10 V DC
	Rated voltage:	24 V DC
	Output impedance:	30 mA during short-circuit -> 330 Ohm during short-circuit
	Max. output current:	10 mA 10 V @ 1K
	DAC type:	PWM
	Ripple:	30mV peak to peak
	PWM frequency:	8 ms / 125 Hz
	Max. overall output error:	±0.3 % (of full-scale range)
	Data control rate:	1 PiBridge cycle
	Resolution:	4.48 mV
	Galvanic Isolation:	No
Analog output modes	Analog output, logic level output	

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Digital in/outputs	<p>Voltage: 24 V DC Impedance: > 100 kOhm</p> <p>Description</p> <ul style="list-style-type: none">• Switchable current source approx. 30 mA• Edge improvement (Line driver)• Level detection (Threshold 1 V)• EMC protection <p>GPO [PIN OUT]</p> <ul style="list-style-type: none">• $U_{high} = 24\text{ V}$ (at $I_{high} < 30\text{ mA}$)• $I_{high} \rightarrow \text{max. } 40\text{ mA}$• Short-circuit proof (short circuit always Low)• Can be loaded with external 24 V (then always High)• Feedback via GPI [PIN IN] (Error message possible)• Line driver up to 1 km at 2 kHz <p>GPI [PIN IN] (Internal 24 V GPO [PIN OUT] = High)</p> <p>By short circuit via switch/variable resistor -> GPI becomes low</p> <ul style="list-style-type: none">• No external voltage needed• Idle mode High• Threshold at 1 V• No filtering <p>GPI [PIN IN] (external voltage GPO [PIN OUT] = LOW)</p> <p>External voltage with reference to GND (GNDs must be connected)</p> <ul style="list-style-type: none">• External voltage 24 V +/- 10 %• Idle mode LOW• Threshold at 1 V• No filtering
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
EMC immunity	According to EN 61000-6-2
Optical indicator	3 status LEDs (bi-color)
RoHS conformity	Yes
CE conformity	Yes
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.