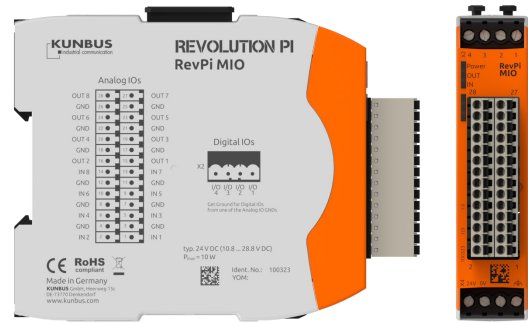


REVOLUTION PI

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 |
| | Sample rate: | 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), two of them freely programmable |
| RoHS conformity | Yes |
| CE conformity | Yes |