izinto – Partner for IoT

izi-io 4840

The modules of the **izi-io** series enable the connection of existing systems, especially in industrial environments, to modern IoT infrastructure. Thanks to the powerful processor and simple configuration preprocessing functions, protocol conversions, and local automation functions can be implemented quickly and in a flexible way.

Features of **izi-io 4840**:

- ✔ Eight individually software-configurable inputs for digital and analog process signals or RTD temperature sensors, including 4..20 mA input.
- ✔ Four digital outputs for flexible coupling of sensors and actuators.
- ✔ RS232, RS485, and CAN interfaces for industrial bus protocols, e.g. Modbus.
- ✔ Readily available pre-configured setups for several applications, customizable:
- ✔ Extensive configuration system for flexible setup and configuration management, supported by izinto tooling, with automatic documentation and payload decoder generation.
- ✔ Integrated Soft-PLC function, graphically programmable for preprocessing measurement data and for local control tasks (external software tool needed, available separately).
- ✔ LoRaWAN radio interface for simple wireless connection, even over long distances.
- ✔ microSD card slot for configuration, recording measurement data, and software updates.
- ✔ IP20 housing with top hat rail mounting for installation in the control cabinet.
- ✔ Fair and future-proof: no vendor lock-in, no cloud requirement. izi-io is an open source hardware product. Longevity by design, no planned obsolescence.

izinto

Germany-based izinto GmbH offers advice, components and solutions in the field of Internet of Things (IoT). We use different technologies to implement the process chain from the sensor node or IoT-enabled system to communication to servers, clients and coupled systems.

+++ Internet of Things + LoRaWAN + Digital Transformation + Smart City + Retrofit + Integration + Communication +++

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Specifications izi-io 4840

Processor	STM32F446 168 MHz ARM Cortex M4, 512 kB Flash, 128 kB RAM
Interfaces	
• **LoRaWAN**	433/868 MHz, device class A+B, SMA socket for antenna
• **Serial**	2x RS-232 or 1x RS-485 or 1x RS-422
• **Bus**	CAN, Modbus
Memory	microSD card slot
Display	multi-color-LED
Programming	via serial interface
Inputs	8 universal inputs / outputs with individually configurable operating modes:

- digital input, switching threshold adjustable, configurable as 24 V current sinking type 1 according to IEC61131-1.
- voltage measurement, ranges 0 to 0.5 / 3.3 / 10 / 30 V
- 0..20 mA current measurement, referenced to ground with external shunt resistor
- Pt1000 temperature sensor, measuring range -30 .. +150 °C
- digital output with 2.5 mA constant current source for controlling optocouplers

Output	4 digital half-bridge outputs:

- 250 mA per output, short-circuit protection
- 4 simple loads or 2 DC motors or 1 stepper motor
- configurable to +24 V or switching to ground

Power supply	8 .. 30 V, max. 0.5 W (typ. 20 mA at 24 V), plus power consumption of the outputs
Assembly	DIN rail (TH35 conforming to EN 60715) Case dimensions W 22.5 mm × H 101 mm × D 119 mm

Contact

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