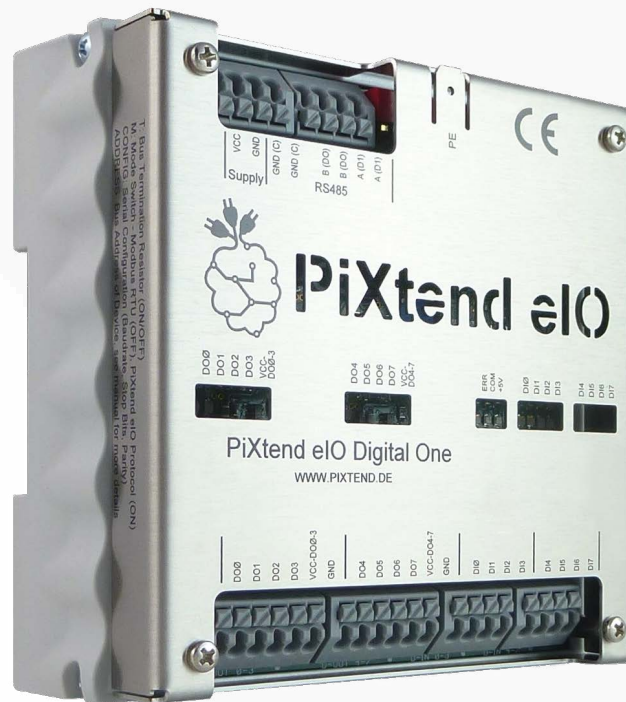# PiXtend® eIO
I/O Module

PiXtend® eIO – Fast, reliable and connection friendly

* Counter function: Up/down counter, 2-channel counter independently of bus cycle

* Up to 32 devices can be operated in one network/bus

* The eIO devices can be addressed via Modbus RTU and our lean "PiXtend® eIO ASCII Protocol"

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FUNCTION		PiXtend® eIO DIGITAL ONE	PiXtend® eIO ANALOG ONE
HARDWARE	POWER SUPPLY	24 V DC ±20 %	24 V DC ±20 %
	COMMUNICATION	EIA/RS485, halbduplex (2-wire)	EIA/RS485, halbduplex (2-wire)
	DIGITAL INPUTS(DI)	8x 3,3/5/12/24 V	–
	INCL. COUNTING FUNCTION		
	DIGITAL OUTPUTS (DO)	8x 0.5 A, 5/12/24 V, HyperLogic <1 ms	–
	ANALOG VOLTAGE INPUTS (AI-U)	–	4x 0...5 V/0...10 V, 10 Bit
	ANALOG CURRENT INPUTS (AI-I)	–	4x 0...20 mA, 10 Bit
	ANALOG VOLTAGE OUTPUTS (AO-U)	–	4x 0...10 V, 12 Bit
	ANALOG CURRENT OUTPUTS (AO-I)	–	2x 0...20 mA, 12 Bit
	WIRE-BREAK DETECTION	–	bei 0...20 mA outputs
	TEMPERATURE RANGE	0 °C...+60 °C	0 °C...+60 °C
	DIMENSIONS - WITHOUT HOUSING (BASIC)	96.3 x 101.8 x 21 mm	96.3 x 101.8 x 21 mm
	DIMENSIONS - WITH HOUSING (PRO)	106 x 105 x 45 mm	106 x 105 x 45 mm
	FORM FACTOR	Aluminium housing for mounting on mounting rail	Aluminium housing for mounting on mounting rail
	CONFORMITY	CE, RoHS, Modbus, IEC 61131-2 (SPS-norm)	CE, RoHS, Modbus, IEC 61131-2 (SPS-norm)
	PiXtend®-COMPATIBILITY	direct: V2-L-, V2-S- with USB-RS485 Dongle	direct: V2-L-, V2-S- with USB-RS485 Dongle
	BAUD RATE	from 2400 to 230400, parity: none, even or uneven	from 2400 to 230400, parity: none, even or uneven
SOFTWARE	SUPPORTED PROTOCOLS	Modbus RTU, PiXtend® eIO ASCII Protocol	Modbus RTU, PiXtend® eIO ASCII Protocol
	FAST DIGITAL LOGIC "HYPERLOGIC"	Available	–
	SECURITY	Watchdog-Timer, CRC-checksum, Parity-Check	Watchdog-Timer, CRC-checksum, Parity-Check
	SUPPORT FOR	CODESYS® V3, Java, C, C++, C#, Phyton, FHEM, Node-RED	CODESYS® V3, Java, C, C++, C#, Phyton, FHEM, Node-RED

Product Highlights

PiXtend® eIO is the I/O expansion system for standard digital and analog inputs and outputs and acts as an ideal complement to our PiXtend® V2 controller. Thanks to ultra-fast HyperLogic, simple, logical links between inputs and outputs can be implemented by the modules themselves, eliminating the need to transmit data via the bus system. The digital inputs can be used to count events, meaning that this process does not have to be implemented via software.

The devices are connected via robust RS485 bus. Modbus RTU support lets you easily integrate eIO devices with existing systems. PiXtend® eIO: Simple and user-friendly communication and protocols!
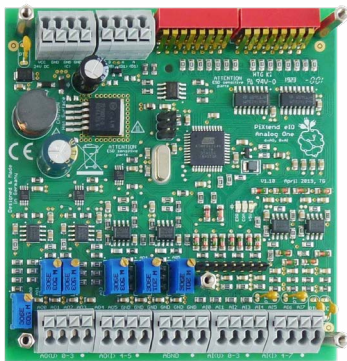
Client Benefits

* Industrial outputs, 8x HighSide switch, 2-group feed, fully protected
* Watchdog timer for data transmission monitoring, secured via CRC checksum. Where required, outputs can be set to an adjustable safe state if required
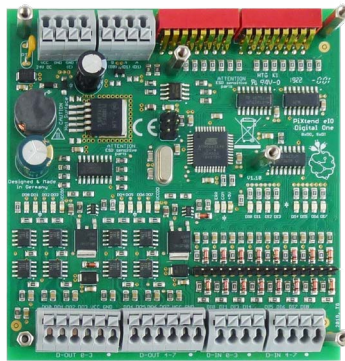
Applications

* Mechanical engineering controller
* Plant engineering controller

PiXtend® eIO Basic Models

Analog One Basic

Item no.: 50199 009

Digital One Basic

Item no.: 50199 007

*   Board – basic version

PiXtend® eIO Pro Models

Analog One Pro

Item no.: 50199 010

Digital One Pro

Item no.: 50199 008

*   Complete board – Pro
*   Aluminium top hat rail housing
*   Brushed stainless steel cover

About Kontron

Kontron is a global leader in IoT/Embedded Computing Technology (ECT) and offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontronprovides secure and innovative applications for a wide variety of industries. As a result, customers benefit from aceerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications.

For more information, please visit: **www.kontron.com**

About Kontron Electronics

Kontron Electronics GmbH is a full-service provider in the field of electronics, development and manufacturing services. Our business portfolio includes proprietary and client-specific products, development and design services for complex electronics components, modules and systems, as well as production and assembly services for entire devices. The company is part of the technology corporation Kontron AG.

For more Information please visit: **www.kontron-electronics.com**

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