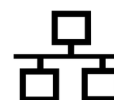


BIOS-IO-02

Universal IoT module with ETHERNET communication
4 ISOLATED DIGITAL INPUTS + 4 RELAY OUTPUTS



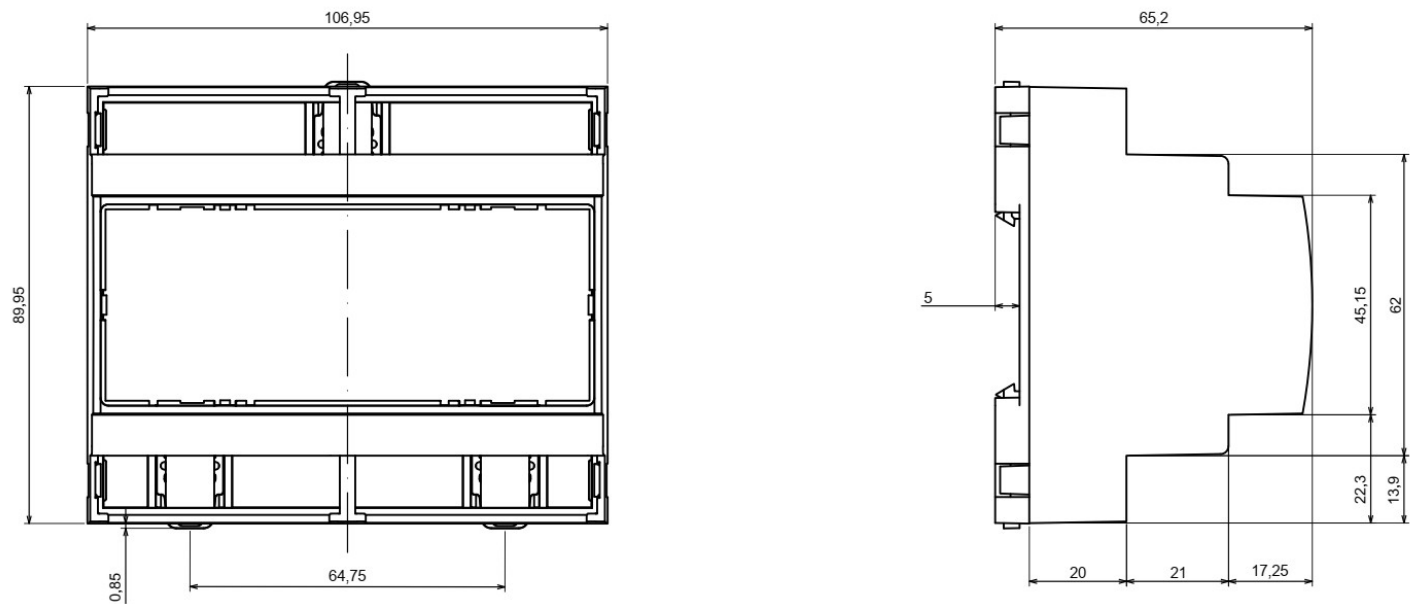
The BIOS-IO-02 universal digital input and relay output module enables efficient and reliable reading of digital signals and building actuators/output/control devices for all kinds of machines, devices, robots, controllers, etc. Isolated digital inputs with built-in galvanic isolation ensure fully safe operation. The digital input type can be set flexibly using DIP switches. Independent NO relay outputs allow simple control elements such as an actuator/output/control device to be implemented. The ETHERNET 10/100Mbit communication interface allows the module to be used in modern LAN networks while maintaining an appropriate level of performance and security. The current state of the digital inputs, the relay outputs and the device status are indicated by LED indicators, which makes installation quick and minimises wiring errors.



Technical data:

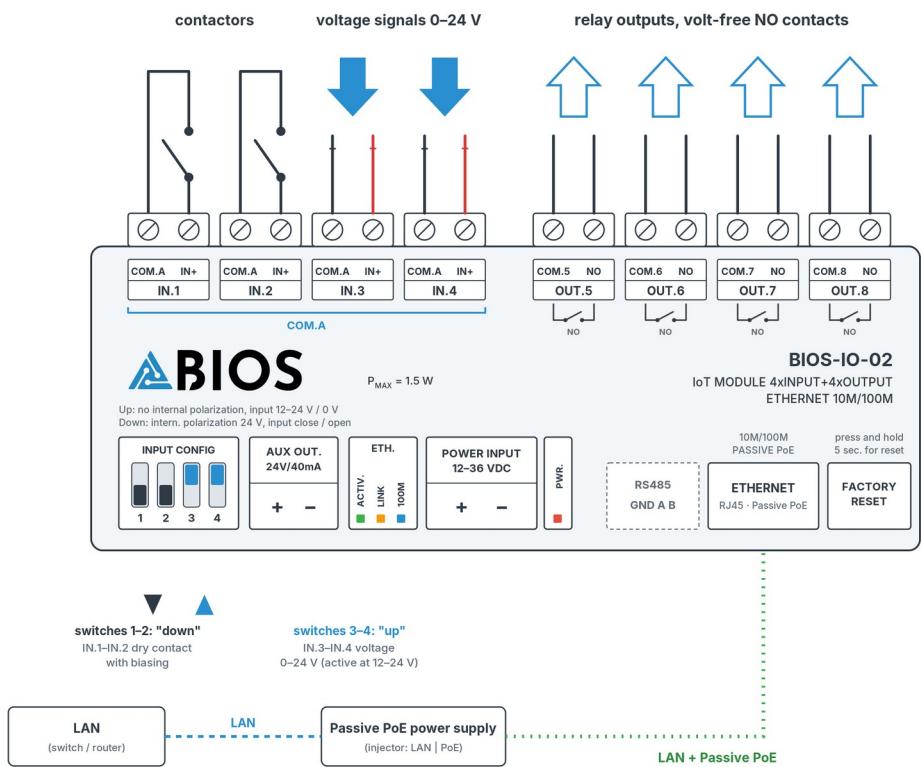
Digital inputs	4
Digital input type	isolated voltage 0–24 V or dry contact (NO) with 24 VDC bias
Input type selection	YES, using DIP switches
Pulse input	YES, max. 3 kHz
Relay outputs	4
Relay output type	isolated, NO, max. 2 A, service life 5x10 ⁶ cycles
Relay output operating mode	static ON/OFF, pulse mode
Input / output status indication	YES, LED indicators
Device status indication	YES, LED indicators
Device configuration	YES, web browser
Communication	ETHERNET 10/100Mbit
Supported protocols	DHCP, TCP/IP, UDP, HTTP, JSON
Power supply	main connector: SELV 12–36 VDC RJ45 socket: Passive PoE
Power consumption	max. 1.5 W at 24 VDC
Built-in protection	reverse supply polarity, thermal, overload
Connector type	screw terminals 0.35–2.5 mm ² (AWG 24–14), 0.8 Nm max.
Mounting	35 mm DIN rail
Enclosure	ABS UL94V-0, light grey, 6xDIN size
Mechanical dimensions	107 x 90 x 65 mm
Mounting orientation	any
Operating temperature	-40°C to +60°C
Storage temperature	-40°C to +85°C
Operating and storage humidity	RH<90% (non-condensing)
IP rating	IP20
Weight	170 g
Protection class	III / SELV

Mechanical dimensions:



All dimensions in millimetres.

Example wiring diagram:



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