**13 DIGITAL OUTPUTS (RELAY)**
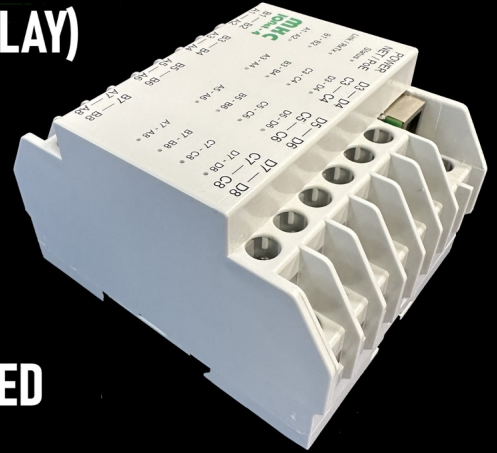
**1 DIGITAL INPUT**

**REST API**

**MQTT CLIENT**

**POE or DIRECTLY POWERED**

The eNetIO-4-addd provides you with thirtheen outputs in the form of a relay normally open contact and an electrically isolated input.

It works both stand-alone and integrated in control systems in industry or in the home user area (e.g. openHAB, Node-Red).

The device is an independent part of a whole series, for the connection of different sensors and actuators for industrial applications and the private environment.

The network interface is used for communication (HTTP, JSON REST-API, MQTT) as well as for power supply of the device via PoE.

The integrated HTTP server enables convenient setting of all system-relevant parameters.

All software interfaces are based on open protocols.
Thus, all devices can be operated directly in your network environment without registration, app or cloud connection. This offers the highest possible protection for your data.
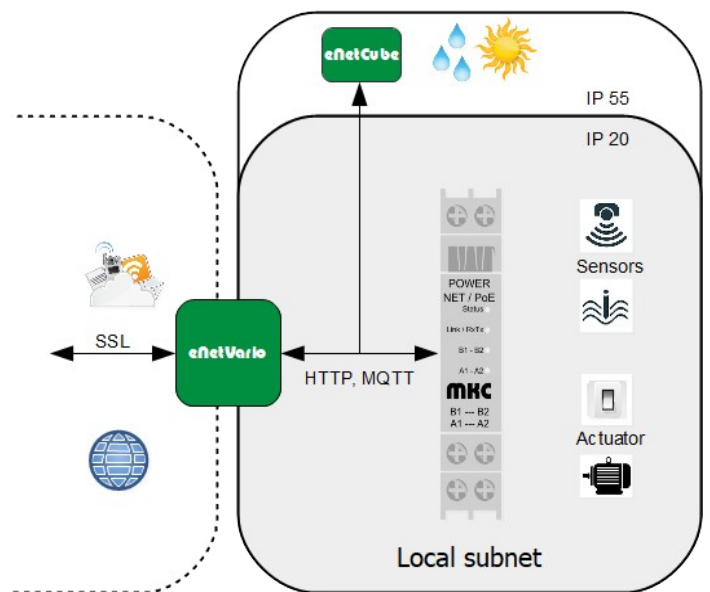


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# eNetIO-4-addd

## Case

- Robust and compact enclosure for top-hat rail mounting according to EN 60715

## Galvanic isolation

- The device is completely galvanic decoupled from the power supply and from the sensors and actuators connected to the screw terminals.

## Communication interface

- RJ45, LAN Ethernet 10/100MBit
- M2M Communication
- MQTT Client
- HTTP Homepage

## Power supply

- Network, PoE
- Alternatively 18 - 48V DC (protected against polarity reversal)

## 5x digital outputs

- Configurable as mono/bistable switch
- LED status indicator

## 1x digital input

- Sampling interval: ca. 2ms
- Weighted arithmetic mean as input filter
- LED status indicator

## Technical specifications

| Dimensions LxWxH [mm] | 90 x 35 x 60 | |
|---|---|---|
| Ambient temperature [°C] | | |
| - Operation | min: 0 | max: 50 |
| - Storage | min: -40 | max: 80 |
| Air humidity [% r.H.] | min: 0 | max: 90 |
| Power supply | | |
| - Network PoE | IEEE802.3af, Class 0 | |
| - Voltage [V] | min: 18 | max: 48 |
| - power consumption [W] | typ: 0,5 | max: 3,84 |
| Digital outputs | | |
| Quantity | 5 | |
| Contacts | A1 – A2, A3 – A4, B3 – B4, C3 – C4, D3 – D4 | |
| Implementation | Relay, normally open | |
| Rated voltage | | max: 250V~ |
| Switching voltage | | max: 440V~ |
| Breaking capacity | | max: 1500VA |
| Rated current | | max: 6A |
| Galvanic isolation | ≥ 3KV | |
| Wire cross-section [AWG] | min: 24 | max: 16 |
| Contact ratings [cycles] (VDE0660, VDE0631, UL508) | - $1 \times 10^5$ with 6A & 250V~<br>- $5 \times 10^5$ with 6A (resistive) & 30V=<br>- $3 \times 10^6$ with 0,3A (L/R=40ms) & 50V= | |
| Digital inputs | | |
| Quantity | 1 | |
| Contacts | B1 - B2 | |
| $V_{IH}$ | min: 12V AC/DC | max: 230V AC/DC |
| $V_{IL}$ | | max: 6V AC/DC |
| Input resistance | ≥ 50KΩ | |
| Galvanic isolation | ≥ 3KV | |
| Wire cross-section [AWG] | min: 24 | max: 16 |

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# eNetIO-4-addd

**SYSTEMS
DEVICES
PROTOTYPES**
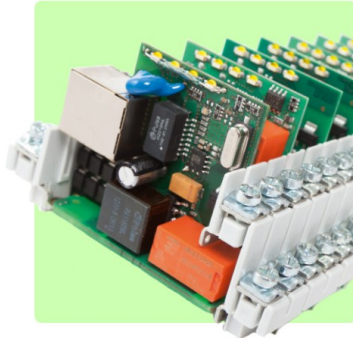
**HARDWARE
SOFTWARE
DEVELOPMENT**
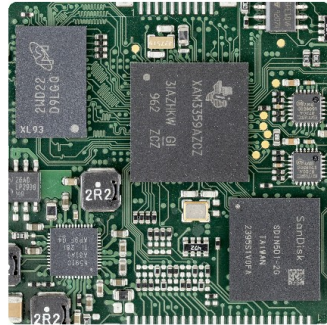
**ASSEMBLY
SMD / THT
AOI**

test

develop

assemble

**COMPETENCE
QUALITY
SERVICE**

**CONTROLLER
LINUX
NODE RED**

**EMBEDDED
MODULES
SENSORS**

**REMOTE IO
REST / MQTT
POE**

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