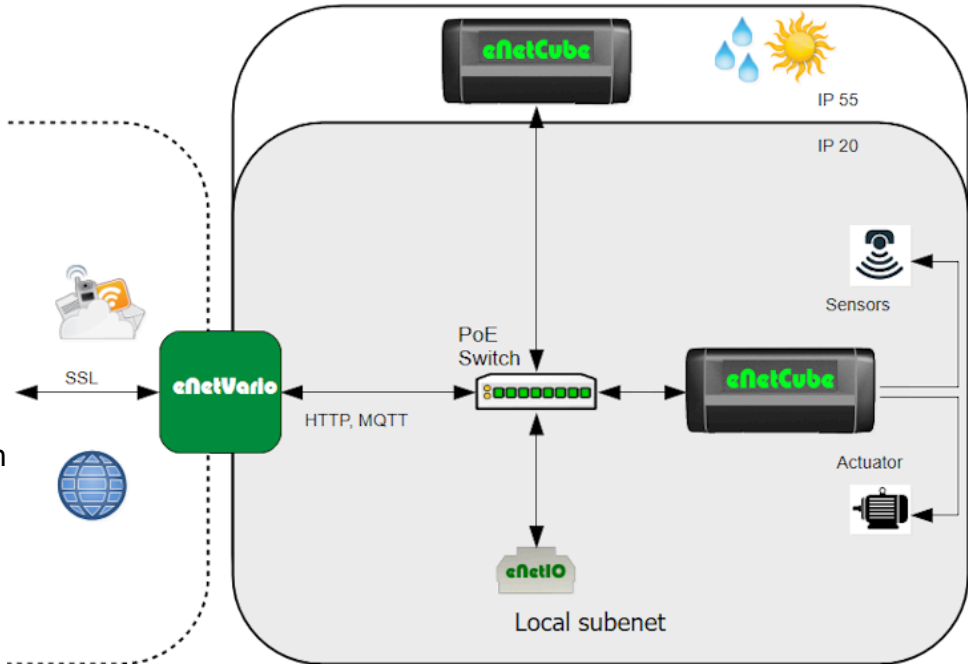
eNetCube-02-02-02 IP55 Datasheet

The **eNetCube-02-02-02 IP55** provides you with two galvanically isolated inputs in a waterproof housing. It works both standalone and integrated in control systems in industry or in the home user area (e.g. openHAB, **Node-Red**).

The eNetCube is a standalone part of a whole series, for connecting different sensors and actuators for industrial applications and the home 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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07/2026

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Case

- Robust and compact enclosure
- Mounting:
  - Top-hat rail mounting according to EN 60715
  - Tripod thread 1/4”-20
  - Stand
- IP code: IP55

Galvanic Isolation

- 3KV digital Input ↔ Device
- The spacing between individual terminals and the device is ≥ 3mm each

Communication Interface

- RJ45, LAN Ethernet 10/100MBit
- M2M Kommunikation
- MQTT Client
- HTTP Homepage
- REST JSON-API

Other Interfaces

- 2 RGB-LEDs controllable with PWM

Power supply

- Power over Ethernet IEEE 802.3af

2x Digital Inputs

- Sampling interval: approx. 2ms
- Weighted arithmetic mean as input filter
- LED status display

Circular Connector

- Lumberg 0314 04
- Mating connector available separately
  - e.g. Lumberg 0321 04

Technical Data

Dimensions LxWxH [mm]	106 x 47.2 x 42	
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 Inputs		
Quantity	2	
Contacts	• Input 1 is on contact 1 and 2 • Input 2 is on contact 3 and 4	
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]		max: 20

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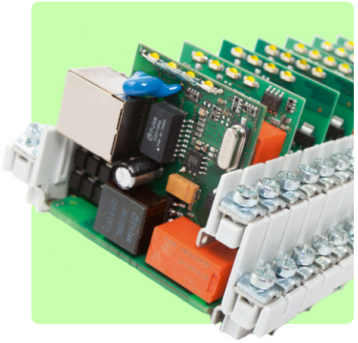
SYSTEMS
DEVICES
PROTOTYPES

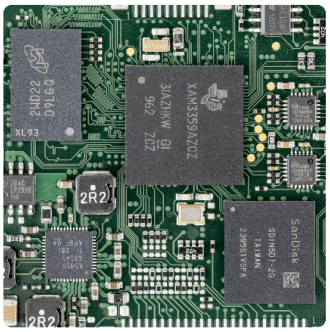


test

develop

assemble

HARDWARE
SOFTWARE
DEVELOPMENT



ASSEMBLY
SMD / THT
AOI

COMPETENCE
QUALITY
SERVICE

CONTROLLER
LINUX
NODE RED

EMBEDDED
MODULES
SENSORS

REMOTE IO
REST / MQTT
POE

You can find more information about our products and services at www.mkc-gmbh.com

MKC Michels & Kleberhoff Computer GmbH
42329 Wuppertal, Vohwinkeler Str. 58
Tel.: +49 / 202 / 27317-0
info@mkc-gmbh.de