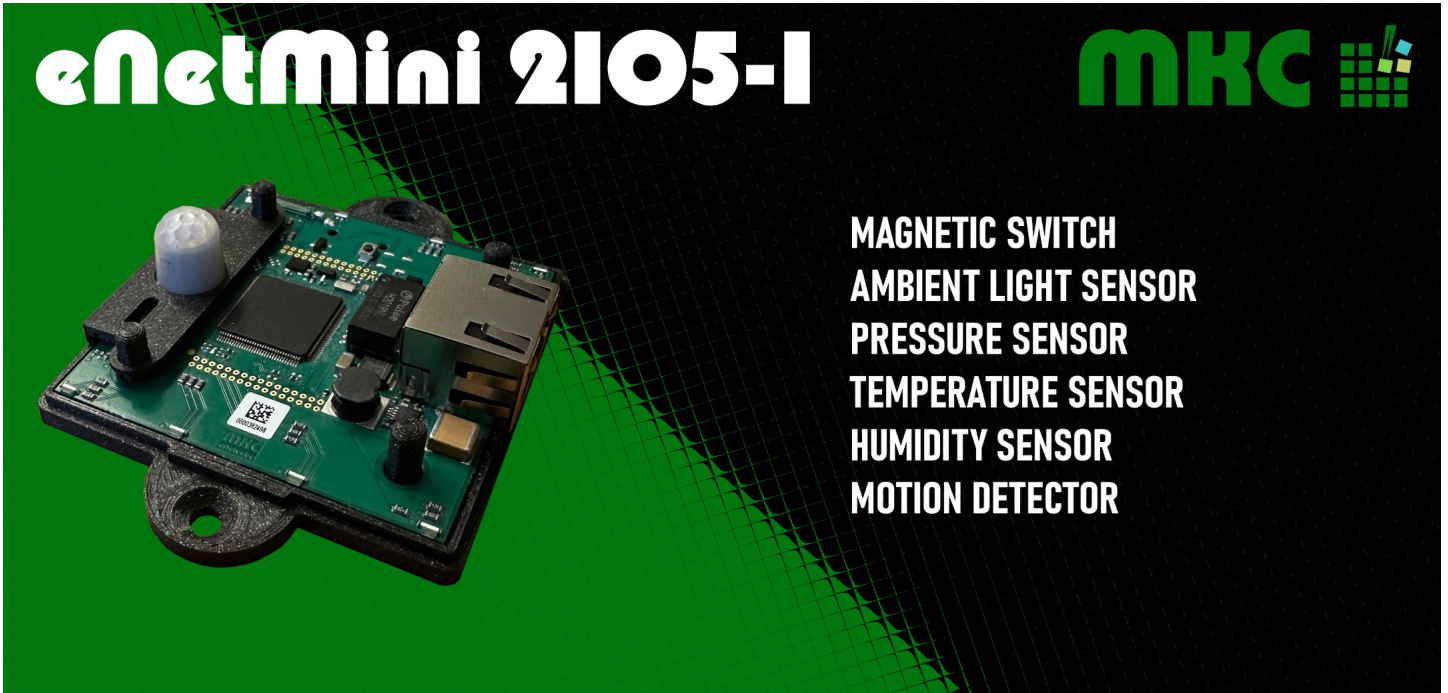


## eNetMini 2105-1



**MAGNETIC SWITCH  
AMBIENT LIGHT SENSOR  
PRESSURE SENSOR  
TEMPERATURE SENSOR  
HUMIDITY SENSOR  
MOTION DETECTOR**

The eNetMini-2105-1 provides you with various environmental sensors. It works both stand-alone and integrated into control systems in industry or in the home user area (e.g. openHAB, **Node-RED**).

The eNetCube is a stand-alone 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.

The eNetMini-2105-1 is designed as a single-board computer. A housing is optionally available or can be printed yourself. The housing, a 3D model of the board and other material are available on [Github](#).

### Applications

- Room monitoring
- Air conditioning control
- Home automation



Further information can be found at [www.enetmini.com](http://www.enetmini.com)



## Sensors

- Magnetic switch
- Ambient light sensor
- Pressure sensor
- Temperature sensor
- Humidity sensor
- Motion detector

## Communication interface

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

## Other interfaces

- 2 RGB LEDs controllable with PWM

## Power supply

- PowerOverEthernet IEEE 802.3af
- Cooling via natural convection (no fan)

## Technical data

Dimensions LxWxH [mm]	58,15 x 55 x 19,3	
Ambient temperature [°C]		
- Operation	min: 0	max: 50
- Storage	min: -20	max: 70
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
Magnetic switch		
Magnetic sensitivity [AT]	min: 10	max: 15
Ambient light sensor		
Optical range [lux]	min: 0,01	max: 83.000
Measurement output result (2000 lux input)[lux] <sup>1</sup>	min: 1800	Max: 2200
Relative accuracy [%]	2	
Linearity (<40 lux) [%]	5	
Linearity (>40 lux) [%]	2	
Pressure sensor		
Pressure range [hPa]	min: 300	max: 1100
Absolute accuracy [hPa] <sup>1</sup>	± 1	
Relative accuracy [hPa]	± 0.12	
Temperature sensor		
Absolute Genauigkeit [°C]	± 1	
Humidity sensor		
Humidity range [%RH]	min: 0	max: 90
Absolute accuracy [%RH]	± 3	
PIR motion sensor		
Detection area [°]	± 45	
Detection range [m]	5	

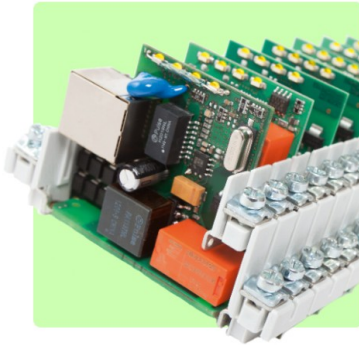
<sup>1</sup> Calibration of sensors possible on request



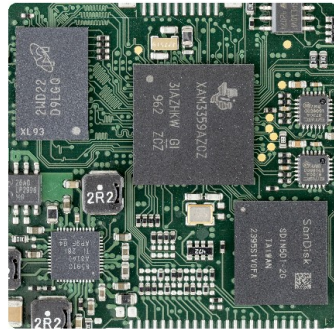
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SYSTEMS  
DEVICES  
PROTOTYPES



HARDWARE  
SOFTWARE  
DEVELOPMENT

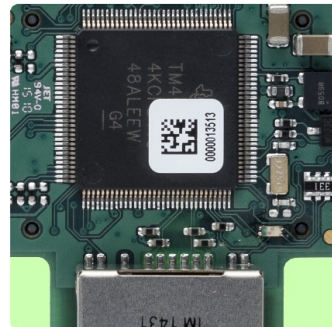


develop

test

assemble

ASSEMBLY  
SMD / THT  
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POE



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