



Pushing Performance

HARTING MICA[®] Energy

People | Power | Partnership

MICA[®] Energy brings the award-winning HARTING Modular Industry Computing Architecture to energy measurement and energy monitoring. With one or several MICA[®] as I/O Devices in the control loop data you can read, and process data directly at the machine and forward relevant information to higher-level systems. Alternatively, the included OpenSource software stack including InfluxDB and lets you store, analyze and present data using industrial strength dashboards. Thanks to MICA's open software architecture a plethora of modern open source tools like C, C++, Java, Python, node.js, Node-RED, R and many more are also available for programming and data processing.

Technische Kennwerte

System Performance

- 1 GHz ARM Processor
- 1 GB RAM
- 4 GB eMMC
- Up to 128GB Flash (via Micro SD Card)

Interfaces

- 1 RS485 / Modbus RTU (M8)
- 8 S0 (M8)
- Modbus TCP over Ethernet
- Ethernet 100 Mbit/s
- GPIO 8x12-24V Inputs / Outputs

Power Supply

- Power over Ethernet (PoE)
- 24 V DC ($\pm 5\%$) / 500 mA

Operating System

- Linux

Included Software

- Data Collector Container
- MQTT Broker
- Telegraf server agent
- InfluxDB time series database
- Grafana time series data visualisation dashboard
- Modbus / S0 configuration interface

Constructive Assembly

- Enclosure material: Aluminum, powder coated
- Front and back panel: Anodized aluminum
- Measurements (w x h x d) 132 x 86 x 35 mm + plug
- Installation on DIN rail or wall with installation kits



Environmental Conditions

- Protection class IP67
- Operating temperature -20 °C ... +60 °C
- Storage temperature -25 °C ... +85 °C
- Relative humidity 5 % ... 95 % (non-condensing)
- Vibration
 - EN 60 068-2-6
- Shock
 - 10 Hz to 150 Hz: 0,075 mm / 1g
 - Acceleration: 30 g

Norms & Security

- EMV EN 301 489
- Low voltage EN 60 950
- Human exposure EN 50 364
- RoHS compliant

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