

MICA® Energy为能源计量和能源监控带来屡获殊荣的浩亭模块化工业计算架构。通过将一个或多个MICA®作为控制回路数据的I/O设备，您可直接在机器上读取和处理数据并向更高级别的系统转发相关信息。或者，通过InfluxDB等开源软件包，并使用工业强度的控制面板存储、分析和展示数据。由于MICA采用开放式软件架构，诸如C、C++、Java、Python、node.js、Node-RED、R等很多开源工具均可用于编程和数据处理。

技术参数

系统性能

- 1 GHz ARM处理器
- 1 GB RAM
- 4 GB eMMC
- 最大128GB闪存(通过Micro SD卡)

接口

- 1个RS485/Modbus RTU(M8)
- 8 S₀(M8)
- 通过以太网实现的Modbus TCP
- 以太网100 Mbit/s
- GPIO 8x12-24V输入/输出

电源

- 以太网供电(PoE)
- 24 V DC(± 5 %)/500毫安

操作系统

- Linux

所包含软件

- 数据收集容器
- MQTT Broker
- Telegraf server agent服务器代理
- InfluxDB时间序列数据库
- Grafana时间序列数据可视化控制面板
- Modbus/S₀配置界面

制造组件

- 外壳材质：粉末涂层铝
- 前后面板：阳极氧化铝
- 外形尺寸(宽x高x长)132 x 86 x 35毫米 + 插头
- 利用安装套件安装在DIN导轨或墙壁上



环境条件

- 防护等级IP67
- 工作温度-20°C ...60°C下
- 存储温度-25°C ...+85°C
- 相对湿度5%...95%(无冷凝)
- 振动
 - EN 60 068-2-6
 - 10 Hz 150 Hz:0.075 mm / 1g
- 冲击
 - EN 60 068-2-27
 - 加速度：30 g

规范与安全

- EMV EN 301 489
- 低压EN 60 950
- 人体接触EN 50 364
- RoHS指令合规性

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.

Technical characteristics

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 (± 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
 - o EN 60 068-2-6
 - o 10 Hz to 150 Hz: 0.075 mm / 1g
- Shock
 - o EN 60 068-2-27
 - o Acceleration: 30 g

Norms & Security

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