

DATA SHEET MUC.ONE M

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1. Product

MUC.one M, Art. No. 500381



2. Application

Data concentrator for readout of meters and data transmission to distant meter data management systems via NB-IoT (narrowband mobile radio communication).

3. Interfaces

M-Bus

Compliant to EN 13757-2/-3/-7 (all M-Bus meters are compatible), max. number of unit loads (UL): 3, baud rate: max. 9600 bps, spring terminal, primary, normal and reversed secondary search (wildcard search), automatic and direct creation of meters, transparent mode

NB-IoT (WAN)

Mobile radio: NB-IoT modem, LTE Cat-NB, internal antenna, card holder for micro SIM card, bands: LTE B1, B3, B5, B8, B20, B28

WLAN (WIFI)

Compliant to IEEE $802.11\ b/g/n$, centre frequency depending on channel: 2412-2484 MHz, internal antenna, function as access point

4. LED indicators

One LED each for status and accessibility of the access point

5. Software functions

The user interface of the software is available only in English.

As indicated for the firmware in the manal, update of the firmware incl. integrity check and authentication

Configuration

- Complete configuration via browser
- Creation of the meter list
- Mass deployment with Netdiscover via HTTP
- Unequal readout intervals for meters
- Reporting with selected formats and protocols
- Usage of OBIS codes
- Extensive management of user access rights
- Export and import of the configuration including certificate and key files
- Update via the web page or Netdiscover
- Print page for error analysis and documentation
- Extensive logging function

Data transmission to servers:

- TCP (unencrypted)
- TLS (encrypted)
- HTTP POST (encrypted and unencrypted)
- MQTT (encrypted and unencrypted)

File formats:

CSV (various variants), XML-8, JSON

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6. Processing unit

The processing unit is a microprocessor system:

CPU: 32 bit LX7, up to 240 MHz clock frequency

■ Memory: 320 kB RAM, 4 MB Flash

Operating system: FreeRTOS

7. General properties

■ Dimensions: 80 x 113 x 60 mm (W x H x D, without cable entry)

Installation: wall mounting, arbitrary orientation

■ Mass: 220 g

8. Power supply

• 90..260 VAC, 50..60 Hz, spring terminal

Power consumption: 1 W (idle state), max. 3 W

Peak inrush-current: <40 A</p>

Galvanic isolation of interfaces and mains:
3 kV

9. Environmental conditions

■ Temperature range: -20..70 °C

■ Air humidity: 0..95 %, non-condensing

10. Conformity and safety

■ 2014/53/EU Radio Equipment Directive

2011/65/EU RoHS Directive (incl. amendment 2015/863)

Overvoltage category II (EN 60664-1)

• Protection class II (IEC 61140)

■ Degree of protection IP67 (IEC 60529)

11. Scope of delivery

MUC.one M

Individual packaging

12. Contact

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Further contacts can be found on our website at: https://www.solvimus.de/en/company/solvimus/

A comprehensive description of the device is provided in the manual that can be downloaded free of charge and without registration from our homepage:

https://www.solvimus.de/en/products/downloads-2/

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