

NB-MM-V



USAGE

The converter is designed for remote reading of electronic consumption meters (electricity meter, gas meter, calorimeter), which are equipped with M-Bus interface.

UNIT DESCRIPTION

The converter acts as an M-Bus Master on the bus segment where it is installed and up to 2 M-Bus Slave devices can be connected to it, e.g. electricity, gas, water and other meters. At regular intervals, the converter acquires data from the connected meters and sends this data to the master system via the NB-IoT network.

TECHNICAL PARAMETERS

Wireless interface

- Frequency Band: 832 to 862 MHz (Uplink), 791 to 821 MHz (Downlink)
- Wireless Technology: NB-IoT NB1
- Protocols: UDP, NEP (proprietary)
- Modulation: QPSK, BPSK, OFDMA, SC-FDMA
- LTE Bands: B1, B3, B5, B8, B20, B28
- Channel Width: 180 kHz
- Transmission Power: 200 mW
- Receiver Sensitivity: -129 dBm
- Data Rate: 0.35 - 240 Mbps
- Output Impedance: 50 Ω
- Antenna: external, SMA-female connector

Data interface

- Physical interface: M-Bus
- Transmission speed: 300 - 9600 Bd
- Data protocols: M-Bus
- Maximum number of devices: 2

Power

- Battery: Li-SOCI2
- Battery Capacity: 13 Ah
- Battery Life: 5 years

Physical Properties

- Length: 145 mm
- Width: 45 mm
- Height: 100 mm
- Weight: 300 g

Operating Conditions

- Operating Temperatures: (-20 to +50) °C
- Storage Temperatures: (0 to +40) °C
- Relative Humidity: 90% (non-condensing)
- IP Rating: IP65

UART configuration

- UART Data Rate: 9.6 kbps
- Transmission method: Asynchronous
- UART parameters: 8 data bits, 1 stop bit, no parity
- Voltage Level: 3.6 V (CMOS)