

# DATASHEET

## Wireless Communication Module

### MT-DD-01



### Basic Characteristics

Wireless Communication Module MT-DD-01 serves for RF communication with other devices (i.e. water meters, gas meters, heat meters, home displays, etc.) with RF output.

Module receives data, keeps them in memory and sends them via RS 485 serial interface to upper layer.

Module supports AES128 encryption and can communicate on both common standards, wireless M-BUS and ZigBee, at the same time.

One module can communicate with up to 24 meters. It can also monitor up to 256 meters (communication strength, time of last communication, meter's serial number, etc.)

## Technical Data

### Power Supply and Consumption

Power supply	+5 V
Current	max. 0.08A

### Wireless M-BUS

Carrier frequency	868 MHz
Transmission output	+12 dBm
Receiver Sensitivity	-100dBm

### ZigBee

Carrier frequency	2.4 GHz
Transmission output	+5 dBm
Receiver Sensitivity	-98dBm

### Cover and safety

Cover in e-meter	IP40
Protection Class	3

### Weight and Dimensions

Weight	100g
Width	84 mm
Height	59 mm
Depth	22 mm

### Impact of Surroundings

Temperature Range	
Operation	-40°C to + 70°C
Storage	-40°C to + 70°C
Relative humidity	0 ÷ 80%