

WM868-RFG



USAGE

The gateway is designed to receive radio messages from remote reading devices for consumption meters, sensors and converters operating in the WACO or Wireless M-Bus communication system in the 868 MHz band and to transmit these messages via GSM/LTE to the central system.

UNIT DESCRIPTION

The gateway is designed to mediate data transmission between the 868 MHz radio remote readout units and the central computer application that receives and processes the data. The gateway receives radio messages of the "User Data" type encoded according to the Wireless M-Bus standard according to EN 13757-3 / EN 13757-4 for the 868 MHz band, checks their correctness, encodes ("packs") them into an IP/UDP frame and sends them to the configured IP address and port number of the central application. It uses Softlink's proprietary "NEP" encoding system when encoding messages into IP/UDP frames. To access the Internet, the gateway uses mobile data services, for which it uses an integrated GSM/LTE modem; alternatively, an integrated 10/100 Mbps Ethernet port can be used.

TECHNICAL PARAMETERS

Wireless interface

• Frequency Band: 868.0 - 868.6 MHz

Wireless Technology:

WACO

MAGO

MAG

Protocols: WACOModulation: GFSK

Channel Width:

WACO 100 kHz, 15 kHz

Transmission Power: 10-25 mW Receiver Sensitivity: -114 dBm

• Data Rate: 2,4 - 38,4 kBd

• Output Impedance: 50Ω

Antenna: external, SMA-female connector

Ethernet interface

Ethernet standard: IEEE 802.3
 Physical layer: 10/100 Base-T

• Ethernet connector: RJ-45

Power

Power supply: DC 9 - 24V
 Maximum current: 200 mA
 Connector: clamps

Physical Properties

Length: 58 mm
 Width: 70 mm
 Height: 90 mm
 Weight: 200 g

Operating Conditions

Operating Temperatures: (-20 to +50) °C
 Storage Temperatures: (0 to +40) °C

• Relative Humidity: 90% (non-condensing)

• IP Rating: IP20

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)

USB configuration

• USB Data Rate: 115.2 kbps

IrDA configuration

IrDA datarate: 115.2 kbps
 IrDA physical layer: IrDA 1.4