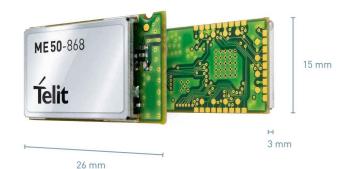


ME50-868





Product Description

The Telit ME50-868 is a wireless M-Bus module compliant with the EN13757 part 4 and part 5 Wireless M-Bus standard.

It is ideally suited for use in one or two-way data links with gas, water, heat and electricity meters and concentrators.

The ME50-868 operates in the 868 MHz band with Tx power of up to 25mW. It runs all Wireless M-Bus modes defined by EN13757-4 and EN13757-5 in the 868 MHz band.

Key Benefits

- W M-Bus modes by Telit, leave integrators to work on applications
- Wide area coverage
- Very low consumption for battery powered applications

Family Concept

The Telit portfolio of short range wireless modules is comprised of a wide range of innovative solutions ranging from ready-to-use wireless radio modems to OEM modules and RF design services.

Operating in the license-free ISM frequency bands of 169, 433, 868, 915 MHz, and 2.4 GHz, they're available in both standard air-interface protocols such as wireless M-Bus and ZigBee as well as proprietary low-power, low data rate technologies.

Telit pre-certified short range modules share small dimensions, form factor, and are pin2pin compatible with one-another, which enables re-use of your design with different modules and air interface technologies as needed to meet your business and environmental requirements. Telit also offers a full set of tools to shorten and streamline your design effort.

Combine your Short Range module with

Cellular modules



GNSS modules



www.telit.com

ME50-868

Product Features

- Range: Up to 2000 m
- Up to 64kB Flash, 4kB RAM, 2kB EEPROM
- 32.768 kHz real time clock (RTC), 4 timers
- · Configurable output power

Networking

- Frequency: 868 870 MHz
- Channels: 12 (1 Radio Link A, 1 Radio Link B, 10 Radio Link C)
- Modulation: GFSK
- · Hayes Mode
- AES Encryption according to NTA8130/DSMR
- Download Over-the-Air

Optional Features

• ME50-169 module is available with DIP adapter and SMA connector

Data

- Serial Data Rate: Up to 115.2 Kbps
- Radio Data Rate: 4.8, 32.768 or 100 kcps

Environmental

- Rectangular 26 x 15 mm, height 3 mm
- Weight 1.7 g
- Temperature: -40°C to +85°C

Interfaces

Serial Interface: RS232 TTL (Tx, Rx, Cts, RTS)

Approvals

- Wireless M-Bus:
- · CE certified modules
- EN 13757-4 supported S, T, R modes and wake-up on radio
- EN 13757-5:2008 mode R2 and Q
- NTA8130 & DSMR compliant
- · OMS compliant

Electrical & Sensitivity

- Output Power: Up to 14 dBm
- Power Supply: 2.0 to 3.6 V
- Board Consumption at 25mW: Rx: 26 mA Tx: 45 mA
- Std-by consumption:
 - -external wake-up (interrupt) 1µA
- -cyclic wake-up
- (internal timer running) < 2µA
- Sensitivity (CER < 10-3): -108 dBm



Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all IoT topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing IoT community and exchange experiences.

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