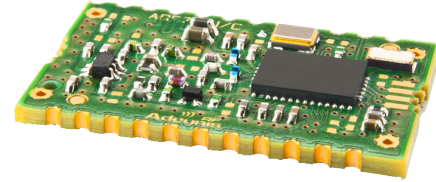


868MHz W-MBus

Highlights

- 868MHz Wireless M-Bus RF Module
- Up to 1000 m range
- Modes R1 / S1 / S1-m / T1 / R2 / T2 / S2 / C1
- AES128 encryption, OMS mode 5 compliant



With its unrivaled performance (RF sensitivity **-117dBm** / link budget **131dB**), our Wireless M-Bus module enables a **two-way digital link** over a **range of 1000m**.

It embeds a **«FULL» M-Bus stack** and an **applicative firmware**, integrating the **«meter»** and **«other» (gateway) profiles**. **AES 128 encryption, compliant to OMS mode 5** is available to provide data security

Interoperable and compatible with other Wireless M-Bus devices, it offers a **total modularity**. Interfacing is performed via GPIO and/or serial interface.

This pre-certified product is compliant with **EN13757-4:2005** standard. Operating in **12 channels** on the **868/870MHz band**, it can be used **without a licence** and is certifiable according to the European RTTE Directive.

Its ease of integration, even for non RF specialists, thus limits technological risks and **reduces development time and costs**.

This module cover most metering applications requiring short-range Mbus-based communication: meters and concentrators ...

Performances

Range: up to 1000m
Power: 25mW
Conducted RF power: 14dBm
Sensitivity: down to -117 dBm (R mode)
Frequencies: 868-870MHz
RF data rate: 4.5/32/100 kbps
Channelization: 10 mode R, 1 mode S, 1 mode T

Firmware

Embedded protocol: fully certified M-Bus stack completed with applicative firmware
Embedded M-Bus modes: R1, R2 / S1, S1-m, S2 / T1, T2 / C1
AES128 encryption, OMS mode5 compliant

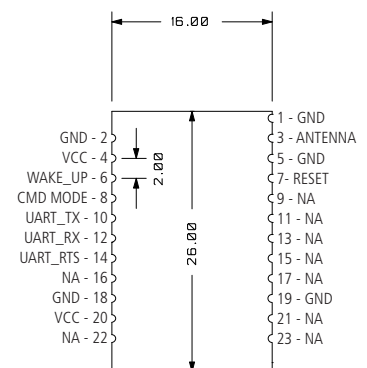
Consumption & needs

Operating voltage: 3.3V nominal (2 to 3.6 V)
TX consumption: max 35mA
RX consumption: max 22mA
Sleep consumption: < 1µA

General information

Dimensions: 26 x 16 x 2mm
Weight: x3g
Temperature: -40°C / +85°C
Certified EN300-220 V2010, EN 13757-4:2005
SMD mounting

Pin configuration & Dimensions



References

- **ARF7751CB** WMBUS TRX25MW AES/OMS