Si868-25mW Module

Highlights
- Range up to 15 km
- Connection to Sigfox network
- Very low power consumption
- RF sensitivity up to -126dBm
- Extremely robust radio link
- «Adeunis RF» form factor and pinout

RF Module optimized for very long range/low consumption applications.

The implementation of the UNB technology allows communication with the Sigfox network.

This module is particularly suitable for applications like Internet of things (IoT), sensor networks, environment, intelligent buildings, metering, security or M2M.

This module, available as «Ready-to-use», focuses on ease of integration even for non-RF specialists, thus limits technological risks, while reducing the development time and cost.

Performances
- Range : up to 15 km
- Power : 25mW
- Radiated RF power : 14dBm
- Sensitivity : -126dBm
- Frequencies : 868.2MHz
- RF data rate : 100 bps
- Modulation : Sigfox

Hardware
- Interfaces : UART
- Microcontroller : STM32 ARM Cortex-M3
- RF chip : TI CC1120

Firmware
- SIGFOX Network gateway

Consumption & needs
- Operating voltage : 2.4 - 3.6V
- Consumption (stdby) : <5 μA
- Consumption (RX) : 40mA
- Consumption (TX) : 65mA (@14dBm)

General information
- Dimensions : 32 x 16 x 3mm
- Weight : 3 g
- Operating temperature : -40°C /+85°C
- Certified EN300-220 V2010
- SMD mounting

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Reference
- ARF7764AA : SI868-Sigfox 25mW RF Module