NB868-25mW Module



Highlights

- RF Narrow Band Module
- Range up to 4 km
- 25mW / 14dBm
- Free frequencies 863-870MHz



With its unrivaled performance (RF sensitivity -120dBm / link budget 134dB), our **Low power NB868** allows to implement data transmission over long distances while maintaining **very low power consumption**.

This module uses **license-free frequencies** and enables a two-way digital link over a range **up to 4 km** (line of sight).

The use of Narrow Band technology allows a large number of available channels in the frequency band allowed: +500 channels @ 14dBm/2.4kbps. You can therefore consider the use of many products on the same site without disturbances or blindness.

Available in «Ready-to-use» version, this module focuses on **ease of integration**, even for non RF specialists, **thus limits technological risks**, **development time and costs**.

The Narrow Band modules have been certified by a notified organization as being compliant with the 2010 version of the RTTE European Directive EN300-220 radio standard.

Performances

Range: up to 4 km Power: 25mW

Radiated RF power: 14dBm Sensitivity: -120dBm Frequencies: 863-870MHz RF data rate: de 2.4 à 57.6 kbps

Modulation: GFSK

Hardware

Interfaces: UART

Microcontroler: STM32 ARM Cortex-M3

RF chip: TI CC1120

Firmware

Transparent Mode

Addressed Mode Repeater mode Packet mode Secured mode

Consumption & needs

Operating voltage : 3-3.6V Consumption (stdby) : 8 µA Consumption (RX) : 24mA

Consumption (TX): 48mA (14dBm)

General information

Dimensions: 32 x 16 x 3mm

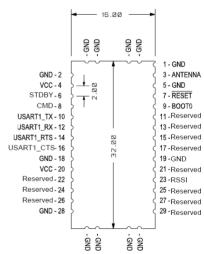
Weight: 3 g

Operating temperature : -40°C /+85°C

Certified EN300-220 V2010

SMD mounting

Pin configuration & Dimensions



Reference

ARF7764BA NB868-RTU-25mW Module