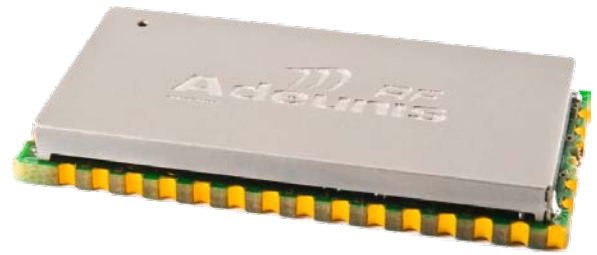


NB169 Module

Highlights

- RF Narrow Band Module
- Up to 30km
- 500mW / 27dBm
- Free frequencies 169.40-169.59MHz



With its unrivaled performance (RF sensitivity **-122dBm** / link budget **149dB**), our **NB169** module redefines the standards of very long distances data transmission. This module uses **license-free frequencies** and enables a two-way digital link over a range **up to 30 km** (line of sight).

Thanks to the embedded **STM32 ARM Cortex-M3** microcontroller, the **NB169 module** provides a large set of radio transmission modes and functions, allowing a wide number of services and features for customer applications.

Performances

Range : up to 30km
Power : 500mW
Radiated RF power : 27dBm
Sensitivity : -122dBm
Frequencies : 169.4-169.59MHz
RF data rate : de 1.2 à 38.4 kbps
Modulation : GFSK

Hardware

Interfaces : UART (x3)
Converters A/D & D/A
Timers PWM
Microcontroller : STM32 ARM Cortex-M3
RF chip : TI CC1120

Firmware

Transparent Mode

Reference

- **ARF7761BA** NB169-RTU-500mW Module

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.

Addressed Mode
Network mode
Packet mode
Secured mode

Consumption & needs

Operating voltage : 3-3.6V
Consumption (stdby) : 1 µA
Consumption (RX) : 35mA
Consumption (TX) : 700mA (27dBm)

General information

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

PACKAGING DIMENSIONS AND PIN CONFIGURATIONS

