

## AMB8310 Medium-Range RF Transceiver 868 MHz

### Key Features

- » 868 MHz Narrow Band transceiver
- » LNA and PA for extended radio range
- » Supports FSK, GFSK, ASK/OOK
- » Configurable Bandwidth and data rates up to 57.6 kbps
- » Output power up to 25 mW
- » Low supply voltage
- » Outstanding Rx sensitivity
- » RF range (at clear line of sight) up to 2 km
- » EN 300 220 compliant



### Description

The AMB8310 radio transceiver module provides reliable wireless communications for the transfer of data at rates of up to 57.6 kbps and operates within the frequency bands of 868 MHz to 870 MHz. Transmission is being effected in the robust FM/FSK modulation. The module is programmable via SPI interface. In combination with a high-performance low-noise amplifier (LNA) front-end, extremely high receiver sensitivities can be achieved. The typical range of transmission is coming up to 2 km at clear line of sight.

### Technical data

Dimensions:	30.5 x 33.0 x 4.5 mm
Operating temperature:	-10 °C to +60 °C
Power supply:	3.0 to 3.6 V DC
Power consumption:	Receive: typ. 27 mA Transmit: typ. 96 mA
RF frequency:	868.00 MHz to 870.00 MHz
RF output power:	max. 14 dBm (50 Ohm)
RF sensitivity:	-94 dBm to -115 dBm
RF data rate:	1.2 kbps to 57.6 kbps
Data rate (serial port):	10 Mbps
Interface:	SPI
Antenna:	External, SMA connector optional
Software:	Software library upon request
Part No.:	AMB8310
Specifications are subject to change without further notice	

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