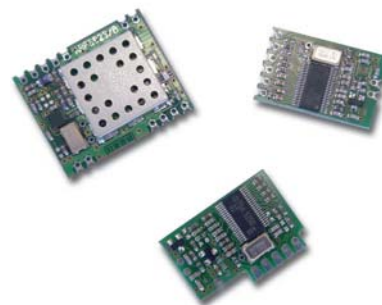




Transmitters & receivers

869.525MHz – 500mW LICENCE FREE for “long range” applications



These transmitters and receivers enable an economic single-way **AM/FM digital link** over a range of **4km**. They are used as an asynchronous serial channel where the useful data rate ranges from **1.2 to 10kBps Manchester**. The transmission protocol remains up to the user.

They use the 869MHz band according to the European directive EN 300-220/ EN 301-489.

The products are available as **miniature daughter boards** to be integrated.

The applications covered range from **radio remote control** of gates, roller-blinds, **point to point transmission**, micro-networks ... in **general public, tertiary or industrial sectors of activity**, home automation, access control, alarms, intra-urban networks, agriculture... ; and more generally **all applications requiring long range or in a particular disturbed environment**.

Specifications

Receiver

- Superheterodyne
- Frequency **869.525MHz**
- Bandwidth **100kHz**
- Serial digital output **0-Vcc**
- Supply voltage **2.2 to 5V**
- Rated consumption **10mA**
- Sensitivity **0,5 µV (ASK) – 1 µV (FSK)**
- Sizes **26 x 15 x 3mm (ASK)**
25 x 15 x 3mm (FSK)

Transmitter

- Crystal frequency reference
- Frequency **869.525MHz**
- Conducted RF power **500mW (27 dBm)**
- Modulation **ASK 100% or FSK ± 25kHz**
- Serial digital input **0-Vcc**
- Supply voltage **2.7 to 5V**
- Rated consumption **650mA**
- Size **24.1 x 30.2 x 7mm**

Complete system

- Range **4km**
- Raw data rate **1200 bps to 10 kbps Manchester**
- Operating temperature **-20 / -70°C**
- Can be qualified in compliance with the RTTE European Directive EN300-220/EN 301-489

Alternative versions

- ARF7243A : ASK transmitter
- ARF7243B : FSK transmitter
- ARF7245A : ASK receiver
- ARF7244A : FSK receiver

Your distributor