



"Low Cost" transmitters & receivers, ASK/FSK European and American versions



These transceivers enable an economic single-way **AM/FM digital link** over a range of **400m**. 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 868 MHz 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 or tertiary sectors of activity**, home automation, access control, alarms... ; and more generally all **low and medium rate data transmission applications** where security depends on information redundancy.

Specifications

Receiver

- Superheterodyne
- Frequency
- Bandwidth
- Serial digital output
- Supply voltage
- Rated consumption
- Sensitivity
- Sizes

Transmitter

- Crystal frequency reference
- Frequency
- Conducted RF power
- Modulation
- Serial digital input
- Supply voltage
- Rated consumption
- Size

Complete system

- Range
- Raw data rate
- Operating temperature
- Can be qualified in compliance with

869MHz version (Europe)

869.525MHz
100kHz
0-Vcc
2.2 à 5V
10mA
0,5 µV (ASK) – 1 µV (FSK)
26 x 15 x 7mm (ASK)
25 x 16 x 7mm (FSK)

869.525MHz
10mW (10 dBm)
ASK 100% or FSK ± 25kHz
0-Vcc
2,2 à 5V
15mA
25 x 14 x 7mm

400m
1200 bps to 10 kbps Manchester
-20 / -70°C
EN300-220/EN 301-489

915MHz version (USA)

915MHz
Idem
Idem
Idem
Idem
Idem
Idem
Idem

915MHz
750µW (~ -1 dBm)
Idem
Idem
Idem
Idem
Idem

Idem
Idem
Idem
FCC Part 15.249

Part Numbers

868/870MHz
 ARF7242A
 ARF7242B
 ARF7245A
 ARF7244A

915MHz
 ARF7242D
 ARF7242E
 ARF7245C
 ARF7244B

ASK transmitter
 FSK transmitter
 ASK receiver
 FSK receiver

Your distributor