



"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 9.6kBps 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
- Radiated 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
-113dBm (ASK) -107dBm (FSK)
26 x 15 x 7mm (ASK)
25 x 16 x 7mm (FSK)

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

400m
1.2kbps to 9.6kbps Manchester
-20 / +70°C
EN300-220/EN 301-489

915MHz version (USA)

915MHz
Idem
Idem
Idem
Idem
Idem
Idem

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

Idem
Idem
Idem
FCC Part 15.249

Part Numbers

869.52MHz
 ARF7242A
 ARF7242B
 ARF7245A
 ARF7244A

915MHz
 ARF7242D
 ARF7242E
 ARF7245C
 ARF7244B

ASK transmitter
 FSK transmitter
 ASK receiver
 FSK receiver

Your distributor