

869 MHz 500mW transmitter and receiver without licence for digital transmission on long distances

The ARF27 transmitters and receivers enable an economical one-way ASK/FSK digital link over several kilometers.

They are used as an asynchronous serial channel with a possible binary transmission rate of 300/4800 bps Manchester.

They work on the 869 MHz/500 mW/without licence in compliance with the European RTTE directive (EN300-220 and EN 301-489) and are available as integrable daughter boards.

The covered applications are the data transmission on long distance, point to point medium transmission rate or micro-network.



TXARF27 transmitter

- Frequency: 869,525 MHz
- Developed power: 500 mW/50 Ω
- Modulation: OOK or FSK \pm 25 kHz
- Serial digital input: 0 - Vdc
- Working voltage: 3 to 5 V
- Electric consumption: 250 mA (version OOK)
(4,5 V) 450 mA (version FSK)
- Dimensions: 54,1 x 30 x 11 mm

RXARF27 Receiver

- Superheterodyne with single frequency switch
- Frequency: 869,525 MHz
- Bandwidth: 400 kHz
- Serial digital output: 0 - VCC
- Consumption: 10 mA
- Sensivity: 0,7 μ V (version OOK)
(for 12 dB of S/N) 1,5 μ V (version FSK)
- Operating voltage: 5 V (version OOK)
3 to 5 V (version FSK)
- Dimensions: 34 x 21 x 10 mm (version OOK)
40 x 20 x 7 mm (version FSK)

Complete system performances

- 4 km in free field
- Temperature: - 20 to 70° C
- Can be qualified in compliance with the RTTE directive (EN 300-220/EN 301-489)

Alternative versions

- ARF6711A: OOK 869,525MHz transmitter
- ARF6711B: FSK 869,525 MHz transmitter
- ARF6182C: OOK - 869,525 MHz receiver - 5 V version
- ARF6440E: FSK - 869,525 MHz receiver

Our local distributor: