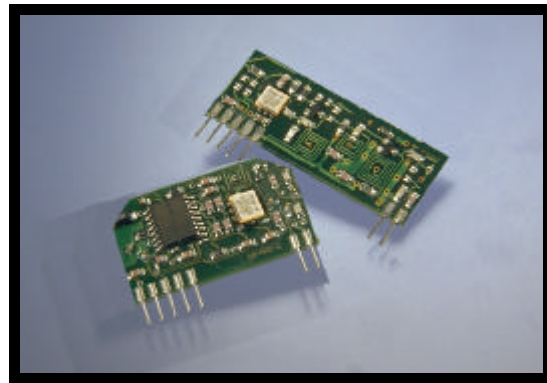


# ARF19

## *Low cost 868MHz ASK transmitter and receiver intended for general public applications*

The ARF19 transmitters and receivers enable an economic one-way AM digital link over several hundreds metres. They are used as an asynchronous serial channel with a possible binary transmission rate of 1200 / 2400 bps.

They function on the 868MHz band in compliance with the European Standard EN 300-220 / ETS 300-683 and are available as integratable daughter boards. The applications cover fleeting low transmission rate data transmissions where the safety of the link results from the redundancy of the information.



#### **TXARF19 transmitter :**

- SAW frequency reference
- frequency 868.35 or 868.95 MHz (on request)
- developed power : 25 mW / 50 $\Omega$
- amplitude modulation 100% or ASK
- serial digital input : 0 - Vdc
- working voltage : 3 or 5 V
- electric consumption : 15 mA / 5 V
  
- dimensions : 35 x 17 x 5 mm

#### **RXARF19 receiver :**

- superheterodyne with single frequency switch
- frequency 868.35 or 868.95 MHz (on request)
- input sensitivity : 0.7 $\mu$ V for 12 dB S/N (BER = 10<sup>-2</sup>)
- amplitude demodulation
- bandwidth : < 400 kHz
- serial digital output : 0 - Vcc
- working voltage : 5 V
- electric consumption : 10 mA
- dimensions : 34 x 20 x 5 mm

#### **complete system performances :**

- 400 m range in free field
- transmission rate from 1200 to 2400 bps
- operating temperature : - 20 to 70°C
- can be qualified in compliance with EN 300-220 / ETS 300-683



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#### **Alternative versions :**

- ARF6233A : ASK 868.3 MHz Transmitter -5V version-
- ARF6233B : ASK 868.9 MHz Transmitter -5V version-
- ARF6233C : ASK 868.3 MHz Transmitter -3V version-
- ARF6233D : ASK 868.9 MHz Transmitter - 3V version-
- ARF6182A : ASK 868.3 MHz Receiver - 5V version-
- ARF6182B : ASK 868.9 MHz Receiver - 5V version-