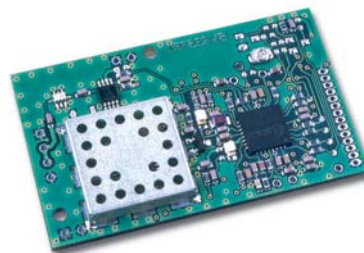


A^{RF29}

1/2/5 channels transceiver FSK 869MHz – 500mW LICENCE FREE for « long range » applications



These systems offer **5 transmission channels** enabling **two-way digital links** over a range of **6km**.

They are used as an asynchronous serial channel where the maximum data rate is **38.4 kBps Manchester** (i.e. 76.8 kBps NRZ).

The transmission protocol remains up to the user.

They use the 869MHz band according to the European Directive RTTE EN300-220/EN 301-489.

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

The applications covered range from **point to point transmissions**, industrial remote controls, remote sensors to **cordless local networks...** in both **industrial sectors of activity**: robotics, remote control, and in **general public or tertiary fields**: access control, home automation... and more generally **all types of applications requiring long range or in a particular disturbed environment**.

Specifications

Transceiver

- Frequencies **869.425 to 869.625 MHz (up to 5 channels).**
- Operating voltage **3.3 to 5V**
- Transmission rate **Up to 38.4 kbps Manchester (76.8 kbps NRZ)**
- Standby consumption **700µA**
- Modulation **FSK**
- Size **30.5 x 50.8 x 12mm**
- Range **Up to 6km**
- Operating temperature **- 20 / +70°C**
- **Can be qualified in compliance with the RTTE European Directive EN300-220/EN 301-489**

Receiver

- Sensitivity **Up to 0,7µV (-110dBm)**
- Rated consumption **25mA**

Transmitter

- Conducted RF power **Up to 500mW (+27dBm) on 50 Ohms**
- Rated consumption **650mA at 500mW.**

Alternative versions

- ARF6921A** : 2 channels transceiver – 19.2Kbps Manchester - Asynchrone
- ARF6921C** : 5 channels transceiver – 4.8Kbps Manchester - Asynchrone
- ARF6921E** : 1 channel transceiver – 38.4Kbps Manchester - Asynchrone
- ARF6921G** : Transceiver 3V version – 76.8Kbps NRZ – Synchrone

Your distributor