



9-channels transceiver FSK – 868/870MHz band – 10mW – high speed digital transmission



These systems offer **9 transmission channels** enabling **two-way digital links** over a range of **300m**. They are used as an asynchronous serial channel where the useful data rate ranges from **1 to 25 kbps Manchester**. The transmission protocol remains up to the user. They use the 868-870 MHz 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...

Specifications

Transceiver

- Frequencies **868 to 870 MHz (9 channels)**
- Operating voltage **3 to 5V**
- Transmission rate **25 kbps Manchester**
- Standby Consumption **< 2µA**
- Size **34 x 30 x 13mm**
- Range **300m**
- Operating temperature **- 20 / +70°C**
- **Can be qualified in compliance with the RTTE European Directive EN300-220/EN 301-489**

Receiver

- Sensitivity **2,2uV(-100dBm)**
- Bandwidth **100KHz**
- Demodulation **2FSK ±25kHz**
- Rated consumption **32mA**

Transmitter

- Radiated RF power **10mW (10 dBm) on 50 Ohms**
- Modulation **2 FSK ± 25KHz**
- Rated Consumption **55mA**

Alternative versions

ARF6583A : Tranceiver

Your distributor