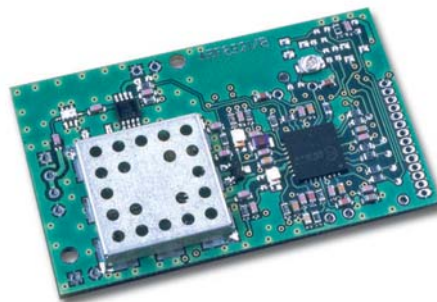




Multi-channels transceiver FSK – 500mW LICENCE FREE, 869MHz



These system offer up to **5 transmission channels** enabling **two-way digital links** over a range of **6000m**. They are used as an asynchronous serial channel where the maximum data rate is **38.4kbps 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
- Operating voltage
- Transmission rate
- Standby consumption
- Modulation
- Size
- Range
- Operating temperature
- Can be qualified in compliance with

869.425 to 869.625 MHz (up to 5 channels)
3.3 to 5V
Up to 38.4kbps Manchester (76.8 kbps NRZ)
700µA
FSK
30 x 51 x 12mm
Up to 6000m
- 30 / +70°C
EN300-220/EN 301-489

Receiver

- Sensitivity
- Rated consumption

-103dBm(1 channel) -105dBm(2 channels) -110dBm (5 channels)
25mA

Transmitter

- Radiated RF power
- Rated consumption

Up to 500mW (+27dBm) on 50 Ohms
650mA at 500mW

Part Numbers

ARF6921A : 2 channels transceiver - 19.2kbps Manchester - Asynchronous
ARF6921C : 5 channels transceiver- 4.8kbps Manchester - Asynchronous
ARF6921E : 1 channel transceiver - 38.4kbps Manchester - Asynchronous
ARF6921G : 1 channel transceiver 3V version - 76.8kbps NRZ - Synchronous
ARF6921H : 2 channels transceiver - 38.4kbps NRZ - Synchronous

Your distributor