



« Lon Works® » transceiver for high digital RF transmission



These systems enable **two-way half duplex digital links** over a range of up to **3000m**.

They are usable as a **direct radio interface dedicated to Lon Works® applications** and are directly **compatible with the NEURON® processor** for a data rate of up to **19.2kbps**.

They use the 433/434 and 869MHz bands according to the European Directive RTTE EN300-220/EN 301-489.

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

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

Specifications

« Low cost » version

« Long range » version

Transceiver

• Fréquences	433.92MHz (1 channel)	869MHz (2 channels)
• Radiated RF power	10mW (10dBm)	500mW (27dBm)
• Operating voltage	5 V +/- 10%	Idem
• Transmission rate	9,6 or 19,2kbps	9,6kbps
• Size	63 x 54 x 14mm	Idem
• Range	400m	3000m
• Operating temperature	- 30 / +70°C	Idem
• Can be qualified in compliance with the RTTE European Directive EN300-220/EN 301-489		

Receiver

• Sensitivity	-105dBm	-107dBm
• Bandwidth	350KHz	50KHz
• Rated consumption	16mA	<30mA

Transmitter

• Modulation	2FSK +/- 50 KHz	2FSK +/- 20KHz
• Rated consumption	18mA	600mA

Data processing :

- **Outcomm digital noise suppression**
- **Digital detection on the LON preamble**
- **Incomm « glitches » suppression**
- **Selectable 9.6 or 19.2kbps transmission rate (only on the ARF6083 version)**

Part Numbers

ARF6083A : 433.92MHz – 10mW transceiver
ARF7021A : 869MHz – 500mW transceiver

Your distributor