

A^{RF43}

Middle range multi-channel radio modem RS232/RS485 or USB – 868/870MHz – 50mW – WITHOUT A LICENCE



The ARF43 enables **two-way half duplex wireless data transmission** over a range of **1.5Km**.

It integrates a **multi-channel radio transceiver, a digital processing unit and a wide power supply range** on the same board.

It is available as an **IP65 enclosure** ready for approved use with integrated or remote antenna. This modem uses the 868/870MHz band according to the European directive RTTE EN300-220/EN 301-489 and is **approved**.

The European Authorities (ETSI) are busy working on an expansion of the 863-868MHz band. When this new frequency standard will be approved, the proposed channels will be able to be used according to these new recommendations.

Data transfer is performed via an **RS232/RS485 serial port or USB interface**.

Configuration is performed by **Hayes commands**.

It can be used **WITHOUT A LICENSE** and covers most **"middle-distance" wireless data transmission** applications, from remote meter reading type **point to point transmission** to constitution of **cordless multipoint local networks**, in sectors of activity such as **automation, robotics, remote management...** and more generally **all types of applications requiring middle range or in a particular disturbed environment**.

Specifications

RF

- Programmable frequencies
- Radiated RF power
- Sensitivity
- Number of channels
- RSSI
- Modulation
- Radio data rate
- Embedded Protocols
- Embedded Profiles

868 to 870MHz (863-868MHz; public sample survey)

50mW (+17dBm)

-105dBm

14 (WB) - 70 (NB)

Available through AT commands

FSK

57600 bits/s

ADEUNIS RF enhanced & versatile RF comms manager

Multimode modem

Modem interface

- Serial link rate
- Serial ports

4.8 to 115.2kBps

RS232 (TxD, RxD, RTS, CTS) or RS485

USB (virtual port COM)

None or material

Through Hayes commands

Transparent or adressed, full custom firmware on demand

- Flow control
- Configuration
- Modes

General informations

- Supply voltage
- Consumption
- Operating temperature
- Range
- Size
- Packaging
- Standard compliance

8 to 32V

60mA in transmission / 30 mA in reception (under 8V)

-20 / +70°C

1.5 km in free field

145 x 100 x 40mm + 85mm antenna

IP65 box

EN300-220 / EN301-489 (full certified modem)

Alternative versions

ARF7263E : RS232/RS485 modem – IP65 box

ARF7263G : RS232/RS485 modem – IP65 box with remote antenna (*)

ARF7263F : USB modem – IP65 box

ARF7263H : USB modem – IP65 box with remote antenna (*)

* Through RG58C cable + TNC connector

Your distributor