

# RF43 A

## Middle range multi-channel radio modem RS232/RS485 or USB – WITHOUT A LICENCE



The ARF43 enables **two-way half duplex wireless data transmission** over a range of **1000 m**. 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 863/870MHz (Europe) band according to the European directive RTTE EN300-220/EN 301-489.

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

Configuration is performed by **AT commands**.

It can be used WITHOUT A LICENCE 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	<b>863 to 870MHz</b>
• Radiated RF power	<b>50mW (+17dBm)</b>
• Sensitivity	<b>-105dBm</b>
• Number of channels	<b>14 (WB) - 70 (NB)</b>
• RSSI	<b>Available through AT commands</b>
• Modulation	<b>FSK</b>
• Radio data rate	<b>57600 bits/s</b>
• Embedded Protocols	<b>ADEUNIS RF enhanced &amp; versatile RF comms manager</b>
• Embedded Profiles	<b>Multimode modem</b>

### Modem interface

• Serial link rate	<b>0.6 to 115.2kbps</b>
• Serial ports	<b>RS232 (TxD, RxD, RTS, CTS) or RS485 Self-powered USB 'virtual port COM'</b>
• Flow control	<b>None or RTS/CTS</b>
• Configuration	<b>Through AT commands</b>
• Modes	<b>Transparent or addressed, full custom firmware on demand</b>

### General information

• Supply voltage	<b>4.5 to 36V</b>
• Consumption	<b>60mA in transmission / 30 mA in reception (under 8V)</b>
• Operating temperature	<b>-30 / +70°C</b>
• Range	<b>1000 m in free field</b>
• Size	<b>145 x 100 x 40mm + 85mm antenna</b>
• Packaging	<b>IP65 box</b>
• Standard compliance	<b>EN300-220 / EN301-489 (full certified modem)</b>

### Part numbers

**ARF7263E** : RS232/485 modem - IP65 box integrated antenna  
**ARF7263G** : RS232/485 modem - IP65 box remote antenna (\*)  
**ARF7263F** : Self-powered USB modem - IP65 box integrated antenna  
**ARF7263H** : Self-powered USB modem - IP65 box remote antenna (\*)  
 \* Through RG58C cable + TNC connector

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