



## Module Modem "low cost"



This module enables a **two-ways digital link** over a range of **300m**. Pre-certified, able to be used without a license, it uses the **863/870MHz** band and is certifiable according to the European RTTE Directive EN 300-220 / EN 301-489.

This modem-module integrates a **digital radio transceiver, a microcontroller and dedicated firmware**. Data transmission is performed via a UART serial interface.

Its ease of integration, even for non RF specialists, thus limits technological risks optimizing the time to market at extremely competitive prices.

This product covers most applications requiring short-range communication, payment terminal, home applications, thermal regulation, traceability, "consumer market" intercom, automotive ...

## Specifications

• Embedded protocol	<b>ADEUNIS RF enhanced &amp; versatile RF comm manager</b>
• Embedded profiles	<b>Multi-mode transceiver</b>
• Link setup & configuration	<b>Through AT commands</b>
• Rough data rate	<b>19.5kbps</b>
• UART data rate	<b>19.2kbps</b>
• UART TTL ports	<b>TXD - RXD</b>
• Function modes	<b>Transparent</b>
• Programmable frequency	<b>863 to 870MHz / Europe</b>
• Channelization	<b>14</b>
• Radiated RF power	<b>9dBm (8mW)</b>
• Sensitivity	<b>Down to -103 dBm (BER 10-3)</b>
• Range	<b>300m</b>
• Operating voltage	<b>3.3V nominal (2.5 to 3.6 V)</b>
• TX / RX consumption	<b>36mA / 23mA</b>
• Standby consumption	<b>&lt; 3µA</b>
• Operating temperature	<b>-30°C / +70°C</b>
• Size	<b>27 x 24 x 6 mm</b>
• Can be qualified in compliance with RTTE European Directive	<b>EN 300-220/EN 301 489</b>

### DemoKit - Integration kit including : demoboard, module, RS232 cable, power supply

- Evaluate the products
- Perform RF measurements
- Develop a prototype

## Part Numbers

ARF7419A : 863/870MHz Module  
ARF7439K : 863/870MHz - ARF44 Demokit

## Your distributor