



Transceiver with μ C 10 to 50mW - 434 & 868MHz



This module enables a **two-ways digital link** up to **1000m**.

It uses the **863/870MHz and 433/434MHz bands** according to the European Directive RTTE EN300-220 / EN301-489.

This modem-module integrates a **digital radio transceiver, a microcontroller and a dedicated firmware**.

Data transmission is performed via an UART serial interface.

The easy integration of this compact MODEM-MODULE allows to reduce **both technologic risks** and **"time-to-market"**.

It covers most applications requiring **middle-distance communication**, file transmission, professional thermal regulation (industrial buildings, hotels), professional GPRS, middle-distance telemetering, digital or analog status translation....

Specific development on request.

Specifications

863/870MHz version*

433/434MHz version

• Embedded protocol	ADEUNIS RF enhanced & versatile RF comm manager	
• Embedded profiles	Multimode transceiver	
• Link setup & configuration	Through AT commands	
• Rough data rate	Parametrable up to 57.6kbps	
• Serial Link	RS232 TTL or RS485	
• UART programmable data rates	Standards from 0.6 to 115kbps	
• UART TTL ports	TXD - RXD - RTS - CTS	
• Programmable RF power	10, 25 & 50mW / 10, 14 and 17dBm	
• Function modes	Transparent or Addressed	
• Specific modes	Development upon request	
• RSSI level	RF signal qualification	
• Operating voltage	3.3V nominal (3.0 to 3.6 V)	
• TX / RX consumption	100mA / 35mA	
• Operating temperature	-30°C / +70°C	
• Range	1000m in open field	
• Size	42 x 20 x 4 mm	
• Can be qualified in compliance with	RTTE European Directive EN 300-220/EN 301 489	
• Programmable frequency	863 to 870MHz	433 to 434MHz
• Channelization	14 (WB) - 70 (NB)	3 (WB) - 15 (NB)
• Sensitivity	Down to -105dBm (BER 10-3)	-110dBm
• Standby consumption	< 20μA	< 30μA

* also available with integrated antenna - contact us

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

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

Part Numbers

ARF7151B : 863/870MHz Module
 ARF7525A : 433/434MHz Module
 ARF7151A : 863/870MHz Module with integrated antenna
 ARF74390 : DemoKit ARF34 - 863/870MHz version
 ARF7439N : DemoKit ARF34 - 433/434MHz version

Your distributor