



Module Modem "Low cost"



This module enables a **two-way 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

863/870 MHz version

- Embedded protocol
- Embedded profiles
- Link setup & configuration
- Rough data rate
- UART data rate
- UART TTL ports
- Function modes
- Programmable frequency
- Channelization
- Radiated RF power
- Sensitivity
- Range
- Operating voltage
- TX / RX consumption
- Standby consumption
- Operating temperature
- Size
- Can be qualified in compliance with

**ADEUNIS RF enhanced & versatile
RF comm manager
Multi-mode transceiver
Through AT commands
19.5kbps
19.2kbps
TXD - RXD
Transparent**

**863 to 870MHz / Europe
14
9dBm (8mW)
Down to -103 dBm (BER 10-3)
300m**

**3.3V nominal (2.5 to 3.6 V)
36mA / 23mA
< 3µA
-20°C / +70°C
27 x 24 x 6 mm
RTTE European Directive EN 300-220/EN 301 489**

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