



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