



Versatile module with integrated μ C and antenna



This module enables a **two-way digital link** over a range of **100 to 1500m**.

It uses the 868/870MHz band according to the European Directive RTTE EN300-220 / EN301-489.

The European Authorities (ETSI) are busy working on an expansion of the 863-868MHz band. When this new frequency standard will be approved, the proposed channels will be able to be used according to these new recommendations.

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

Data transmission is performed via a UART serial interface.

The module is available either with a **miniature antenna integrated in the PCB** (for short-distance applications) or with the use of a wire remote antenna.

This compact MODEM-MODULE is **very simple to integrate** resulting in **reduced marketing times**.

This product covers most applications requiring **short-distance communication**, file transmission, digital or analog status translation.... **Specific development on request**.

Specifications

- Embedded protocol
- Embedded profiles
- Link setup & configuration
- Rough data rate
- Serial Link
- UART programmable data rates
- UART TTL ports
- Function modes
- Specific modes

- Programmable frequency
- Channelization
- Programmable radiated RF power
- Sensitivity
- Range

- RSSI level

- Operating voltage
- TX / RX consumption
- Standby consumption
- Operating temperature
- Size

- Can be qualified in compliance with the RTTE European Directive EN 300-220 / EN 301 489

ADEUNIS RF enhanced & versatile RF comm manager

Multimode modem

Through Hayes commands

Parametrable up to 57600 bps

RS232 TTL or RS485 (lignes de gestion buffer 485)

Standards from 4.8 to 115 kbps

TXD - RXD - RTS - CTS

Transparent or Adressed

Development upon request

868 to 870 MHz / Europe (863-868MHz : public sample survey)

14 (Wide band) – 70 (Narrow band)

10, 25 & 50 mW / 10, 14 and 17dBm

Down to -105 dBm (BER 10-3)

Up to 500m with integrated antenna

1500 m external antenna

RF signal qualification

3.3V nominal (3.0 to 3.6 V)

100 mA / 35 mA

< 20 μ A

-20°C / +70°C

55 x 20 x 4 mm (Integrated antenna version)

45 x 20 x 4 mm (external antenna version)

Alternative versions

ARF7151A : Module with integrated antenna

ARF7151B : Module without antenna (external antenna)

ARF7263A : Demo kit

Your distributor