



Long range multi-channel radio modem RS232/RS485 – 869MHz – 500mW



The ARF35 enables **two-way half duplex wireless data transmission** over a range of **6Km**.

It integrates a **multi-channel radio transceiver, a digital processing unit and a wide power supply range** on the same board.

It is available as an **IP65 enclosure** ready for approved use with integrated or remote antenna.

This modem uses the 869MHz / 500mW band according to the European directive RTTE EN300-220/EN 301-489 and is **approved** Data transfer is performed via an **RS232/RS485 serial port**.

Configuration is performed by **serial commands**.

It can be used **WITHOUT A LICENSE** and covers most "**long-distance**" **wireless data transmission** applications, from remote meter reading type **point to point transmission** to constitution of **cordless multipoint local networks**, in sectors of activity such as **automation, robotics, remote management...** and more generally **all types of applications requiring long range or in a particular disturbed environment**.

Specifications

RF

- Programmable frequencies **869.425 to 869.625MHz**
- Radiated RF power **500mW (+27dBm)**
- Sensitivity **-105dBm**
- Number of channels **2 or 5**
- RSSI **Available through serial commands**
- Modulation **FSK**
- Data rate **10 Kbits or 40Kbits/s**
- Embedded Protocols **ADEUNIS RF enhanced & versatile RF comms manager**
- Embedded Profiles **Multimode modem**

Modem interface

- Wired transmission rate **2.4 to 38.4kBps**
- Serial ports **TxD, RxD, RTS. standard Config RS232, RS485 accessible through serial commands**
- Flow control **None or RTS/CTS**
- Configuration **Through serial commands**
- Modes **Transparent or adressed, full custom firmware on demand**

General informations

- Supply voltage **8 to 32V**
- Rated consumption **400mA / 40 mA (under 8V)**
- Operating temperature **-20 / +70°C**
- Range **6 km in free field**
- Size **145 x 100 x 40mm + 85mm antenna**
- Packaging **IP65 box**
- Standard compliance **Integrated or external antenna (RG58C cable + TNC connector)
EN300-220 / EN301-489 (full certified modem)**

Alternative versions

- ARF7120C** : 2-channels modem – Integrated antenna
- ARF7120D** : 5-channels modem – Integrated antenna
- ARF7120E** : 2-channels modem – External antenna
- ARF7120F** : 5-channels modem – External antenna

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