A **RF35**

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**
	Integrated or external antenna (RG58C cable + TNC connector)
• Standard compliance	**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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