



## « Low cost » multi-channel radio modem RS232 – 433/434MHz



The ARF33 enables **two-way half duplex wireless data transmission** over a range of **500m**. It integrates a **10-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. This modem uses the 433/434MHz band according to the European Directive RTTE EN300-220/EN301-489 and is **approved**. Data transfer in transparent mode is performed via an **RS232 serial port**. Configuration is performed by **Hayes commands**. It covers most **short-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** ....

## Specifications

### RF

• Programmables frequencies	<b>433.125 to 434.700MHz</b>
• Radiated RF power	<b>10mW (10dBm)</b>
• Sensitivity	<b>-103dBm</b>
• Number of channels	<b>10</b>
• Modulation	<b>FSK</b>
• Data rate	<b>10Kbits/s</b>

### Modem interface

• Wired transmission rate	<b>9600 bauds</b>
• Serial ports	<b>TxD &amp; RxD (RS232)</b>
• Flow control	<b>None</b>
• Set up & configuration	<b>Through Hayes commands</b>
• Modes	<b>Transparent</b>

### General informations

• Supply voltage	<b>8 to 40V</b>
• Rated consumption	<b>50mA (under 24V)</b>
• Operating temperature	<b>-20 / +70°C</b>
• Range	<b>500m on open field</b>
• Size	<b>145 x 100 x 40mm + 170mm antenna</b>
• Packaging	<b>IP65 box</b>
• Standard compliance	<b>EN300-220 / EN301-489 (full certified modem)</b>

### Alternative versions

ARF7095B : Modem RS232 – IP65 box

### Your distributor