

# RF53 A

## 500mW multi-channel radio modem RS232/RS485 or USB



Modem  
& / or  
Repeater

The ARF53 enables two-way half duplex wireless data transmission over a range of **6000 m**.

Available in **IP65 box**, they are **certified** and can be used without a licence in most European Countries and in North America (868.400 to 868.650MHz & 902 to 928MHz).

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

Data transfer is performed via an **RS232/RS485 serial port or USB interface**. Configuration is performed by **AT commands**.

In order to meet applications needs for long distance transmission or transmission in an extreme environment while still using products NOT REQUIRING A LICENCE, the ARF53 embeds now a **repeater feature** in all European models.

It covers most **"long-distance" wireless data transmission applications** such as remote meter reading type point to point transmission or constitution of cordless multipoint local networks, in sectors of activity such as automation, robotics, remote management, automatic piloting of buses traffic lights, urban traffic control extension....

### Specifications

RF	869MHzVersion (Europe)	915MHz Version (USA)
• Programmable frequencies	869.400 to 869.650MHz	902 to 928MHz
• Number of channels	1 (WB) - 3 (NB)	FHSS/50
• Radiated Rf power	500mW (+27dBm)	
• Sensitivity	-108dBm (WB)/ -112dBm (NB)	
• RSSI	Through AT Commands	
• Radio data rate	57 600 bits/s (WB) 10 000 bits/s (NB)	
• Embedded protocols	ADEUNIS RF enhanced & versatile Rf comms manager	
• Embedded profiles	multimode modem	
<b>Modem interface</b>		
• Serial link rate	1.2 to 57.6kbps	
• Serial ports	RS232 (TxD, RxD, RTS, CTS) or RS485 USB 'port COM virtuel'	
• Flow control	None or RTS/CTS	
• Configuration	Through AT Commands	
• Modes	Transparent or Addressed	Adressed Secured
<b>Generale informations</b>		
• Supply voltage	4.5 to 36V	
• Consumption	3W in transmission, 0.27W in receipt	
• Operating temperature	-30 / +70°C	
• Range	6000 m in free field	
• Size & Packaging	IP65 box - 145 x 100 x 40mm + 85mm antenna	
• Standard compliance	RTTE EN300-220 / EN301-489 (full certified modem)	FCC Part 15.247
<b>Repeater Function</b>		
	Yes	No
	Modem / repeater / modem & repeater	

### Part Numbers

868/870MHz	915MHz	
ARF7474D	ARF7474C	RS232/485 - IP65 box integrated antenna
ARF7474F	ARF7474E	RS232/485- IP65 box remote antenna(*)
ARF7474H	ARF7474G	USB - IP65 box integrated antenna
ARF7474J	ARF7474I	USB - IP65 box remote antenna (*)
(*) Through RG58C cable + TNC connector		

Your distributeur