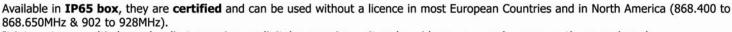


Modem & / or Repeater



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

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



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

	869MHzVersion (Europe)	915MHz Version (USA)
RF	2007.11.27.07.00.11	January Control
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 (N	IB)
Embedded protocols	ADEUNIS RF enhanced & versatile Rf comms manager	
Embedded profils	multimode modem	
Modem interface		
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
Generale informations		
Supply voltage	4.5 to 36V	
Consumption	3W in transmission, 0.27W in recept	
Operating temperature	-30 / +70°C	
Range	6000 m in free field	
Size & Packaging	IP65 box - 145 x 100 x 40mm + 85mm antenna	
Standard conpliance	RTTE EN300-220 / EN301-489 (full certified modem)	FCC Part 15.247
Repeater Function	Yes	No
	Modem / repeater / modem & repeater	
	Part Numbers	
	Part Nullibers	
	868/870MHz 915MHz	

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

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