





► **Technical specifications**

Products	ARF33-PRO	ARF43-PRO	ARF53-PRO	ARF73
				
Range	200m	1000m	6km	25km
<b>Radio characteristics</b>				
Frequency	863 to 870MHz	863 to 870MHz	869.525MHz 902/928MHz	400 to 470MHz
Power	10mW	Up to 50mW	Up to 500mW	0.5 to 4W
Sensitivity	-112dBm	-112dBm	-112dBm	-115dBm
RF data rate	9.6 / 57.6kbps	9.6 / 57.6kbps	9.6 / 57.6kbps	4.8 / 9.6kbps
Number of channels	2 (WB) / 65 (NB)	2 (WB) / 65 (NB)	2 (WB) / 65 (NB) 50 FHSS (US version)	-
Rated consumption	Transmission: 0.4W Reception: 0.27W	Transmission: 0.7W Reception: 0.27W	Transmission: 3W Reception: 0.27W	Transmission: 16W Reception: 2W
<b>Modem interface</b>				
UART data rate	9.6 / 57.6kbps	9.6 / 57.6kbps	9.6 / 57.6kbps	4.8 / 115.2kbps
Serial ports	RS232 RS485 Self-powered USB	RS232 RS485 Self-powered USB	RS232 RS485 Self-powered USB	RS232 RS485
Flow control	None or RTS/CTS	None or RTS/CTS	None or RTS/CTS	CTS
Set up & configuration	Adeunis RF software AT Commands	Adeunis RF software AT Commands	Adeunis RF software AT Commands	Adeunis RF software AT Commands
Modes*	T / A / R	T / A / R	T / A / R T / A / S (US version)	T / A / R
<b>General informations</b>				
Operating temperature	-30° / +70°C	-30° / +70°C	-30° / +70°C	-30° / +70°C
Supply voltage	4.5 to 36V	4.5 to 36V	4.5 to 36V	10 to 28V
Enclosure	IP65 box	IP65 box	IP65 box	IP65 box
Dimensions	145 x 100 x 40 mm	145 x 100 x 40 mm	145 x 100 x 40 mm	169 x 100 x 55 mm
R&TTE compliance	EN300-220 EN301-489 EN60950	EN300-220 EN301-489 EN60950	EN300-220 EN301-489 EN60950 FCC Part 15.247	EN300-113 EN301-489 EN60950

\* T = Transparent / A = Addressed / R = Repeater / S = Secure

► **References**

	ARF33-PRO	ARF43-PRO	ARF53-PRO (Europe version)	ARF53 (US version)	ARF73
RS232/RS485 version Built-in antenna	ARF7474KA	ARF7474OA	ARF7474SA	ARF7474CA	-
RS232/RS485 version External antenna	ARF7474LA	ARF7474PA	ARF7474TA	ARF7474EA	ARF7499B ARF7499C
Self-feed USB version Built-in antenna	ARF7474MA	ARF7474QA	ARF7474UA	ARF7474GA	-
Self-feed USB version External antenna	ARF7474NA	ARF7474RA	ARF7474VA	ARF7474IA	-

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20 years of expertise in designing and  
manufacturing **RADIO MODEMS** and  
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- **Interoperable**
- **Industrial**
- **Powerful**
- **Wireless**



**Radio modems  
for  
wireless data transfer**

► **For all your applications**



# ▶ Radio Modems

The **ARFx3** range of radio modems, provides bidirectional half-duplex wireless data transfer over distances ranging from a few meters to several dozen kilometers.

- The **ARFx3** range:
- ▶ 3 references of radio modems that can be used **without a licence** in Europe and North America (863/870MHz and 902/928MHz). **These interoperable and communicating modems** provide the advantage of being able to adapt the powers and ranges to the requirements of the concerned appliances.
  - ▶ 1 reference to be used **with a licence** operating on the 400/470MHz band. Adjustable power from 0.5 to 4W. Normally used to replace land lines or for critical applications that cannot depend on the availability of a GSM network, this modem enables **the user to benefit from the advantages of professional licence holder's radio (confidentiality and security) within a limited budget.**

The **strength of the signal** guarantees operation as reliable and efficient as a wire connection and, furthermore in industrial conditions, over very long distances or in environments subject to interference.

This radio modem provides professional quality communication for all applications where wiring is difficult and costly, as well as for mobile applications in activity sectors like automatic control, transport, robotics, remote management, etc.

## Wide choice of powers and frequencies

- ▶ A wide range of powers from **10mW to 4W.**
- ▶ **Licence-free frequencies** on European and American bands (863/870MHz and 902/928MHz) or frequencies **requiring a licence** (400/470MHz)

## Strength

- ▶ Strong **IP65 box**
- ▶ **Wide rang of temperature** (-30 / +70°C)
- ▶ **Industrial power supply** (4.5 to 36V).

## Compatibility\*

- ▶ **ARFx3** range radio modems are **interoperating** to be able to offer maximum flexibility when installing them on customers' applications.

## Interfaces

- ▶ The **diversity of the interfaces** fitted to the **ARFx3** (RS232 – RS 485 or USB) enables **digital or serial** data to be transmitted over long distances.



## Range

- ▶ **From 200m to 25km**, enable the installation to be adapted to the requirements of the application.

## Operating modes

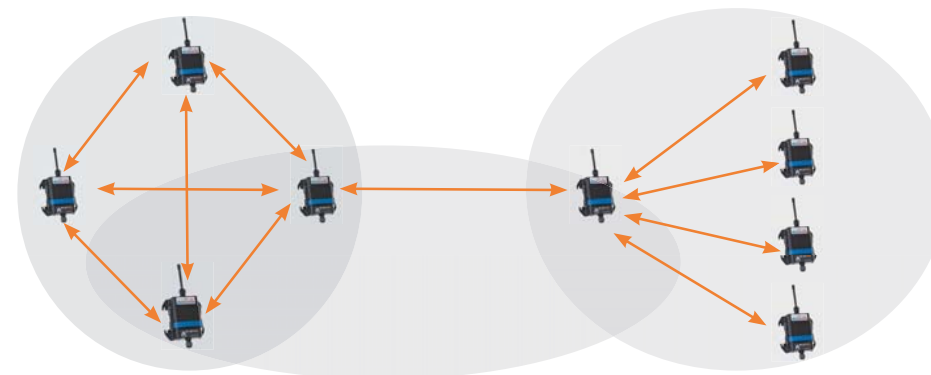
- ▶ **3 intelligent modes** to cover all types of application.

## Certification

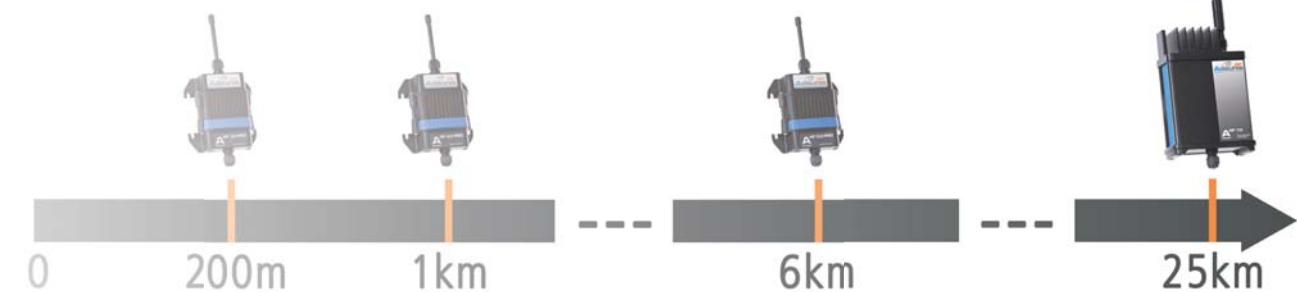
- ▶ Development in **strict respect of standards and regulations.**
- ▶ **Certified products** (EN300-220, EN301-489, EN300-113 and EN60950)

## Configuration

- ▶ **Simple and easy** implementation thanks to the factory setup.
- ▶ User friendly integration and operation via simple and intuitive **Adeunis RF software** or AT commands.



**Simplify your installations for short, medium or long distances...**



**... to satisfy the requirements of all your applications.**

## Adressed Mode



Mode allowing the transmission of data to a given module (or group of modules)

## Repeater Mode



Mode providing the repetition of data in the case of long distances (or hostile environments) not allowing direct communication from point A to point B.

## Transparent Mode



Simple transmission of data on the air, without addressing.

- ▶ **Transport**
- ▶ **Telemetry**
- ▶ **Energy**
- ▶ **Display**
- ▶ **Water management**

- ▶ **Industrial automation**
- ▶ **Military**
- ▶ **Medical**
- ▶ **SCADA**
- ▶ **Agriculture**

\* Available for references ARF33-PRO, ARF43-PRO and ARF53-PRO (European version)