Adeunis RF
Wireless products & solutions

www.adeunis-rf.com

- Flexible
- Modular
- Powerful
- Robust
- Certified

SHORT FORM CATALOGUE

Stand-Alone products
Accessories

Wireless Expertise
www.adeunis-rf.com

Licence-free frequency Data Modems

863 / 870MHz ▶ 200m range - 10mW — ARF33-PRO Europe

Sensitivity: -112dBm
RF data rate: 9.6 / 57.6kbps
Number of channels: 2 (WB) / 65 (NB)
Flow control: None or RTS/CTS
UART data rate: 9.6 / 57.6kbps
Modes: T / A / R*
Supply voltage: 4.5 to 36V
Operating temperature: -30 / +70°C
Enclosure: IP65 box

Interface	Part Nb Integrated antenna	Part Nb External antenna
RS232 / RS485	**ARF7474KA**	**ARF7474LA**
Self-powered USB	**ARF7474MA**	**ARF7474NA**

863 / 870MHz ▶ 1000m range - up to 50mW — ARF43-PRO Europe

Sensitivity: -112dBm
RF data rate: 9.6 / 57.6kbps
Number of channels: 2 (WB) / 65 (NB)
Flow control: None or RTS/CTS
UART data rate: 9.6 / 57.6kbps
Modes: T / A / R*
Supply voltage: 4.5 to 36V
Operating temperature: -30 / +70°C
Enclosure: IP65 box

Interface	Part Nb Integrated antenna	Part Nb External antenna
RS232 / RS485	**ARF7474OA**	**ARF7474PA**
Self-powered USB	**ARF7474QA**	**ARF7474RA**

869.525MHz ▶ 6000m range - up to 500mW — ARF53-PRO Europe

Sensitivity: -112dBm
RF data rate: 9.6 / 57.6kbps
Number of channels: 2 (WB) / 65 (NB)
Flow control: None or RTS/CTS
UART data rate: 9.6 / 57.6kbps
Modes: T / A / R*
Supply voltage: 4.5 to 36V
Operating temperature: -30 / +70°C
Enclosure: IP65 box

Interface	Part Nb Integrated antenna	Part Nb External antenna
RS232 / RS485	**ARF7474SA**	**ARF7474TA**
Self-powered USB	**ARF7474UA**	**ARF7474VA**

902 / 928MHz ▶ 6000m range - up to 500mW — ARF53 USA

Sensitivity: -112dBm
RF data rate: 9.6 / 57.6kbps
Number of channels: 50 FHSS
Flow control: None or RTS/CTS
UART data rate: 9.6 / 57.6kbps
Modes: T / A / S*
Supply voltage: 4.5 to 36V
Operating temperature: -30 / +70°C
Enclosure: IP65 box

Interface	Part Nb Integrated antenna	Part Nb External antenna
RS232 / RS485	**ARF7474C**	**ARF7474E**
Self-powered USB	**ARF7474G**	**ARF7474I**

Under licence Data Modems

400 / 470MHz ▶ 25km range - 0.5 to 4W — ARF73

Sensitivity: -115dBm
RF data rate: 9.6kbps
Flow control: CTS
UART data rate: 4.8 to 115.2kbps
Modes: T / A / R*
Supply voltage: 10 to 28V
Operating temperature: -30 / +70°C
Enclosure: IP65 box

Interface	Part Nb External antenna
RS232 / RS422	**ARF7499B**
RS485	**ARF7499C**

Interoperable **Powerfull** **Full certified** **IP65 box** **Flexible**

*T: transparent / A: addressed / S: secured / R: repeater

I/O Modules

863 / 870MHz ▶ **200m to 25km range** **ARF50-PRO**

Must be connected to an ARFx3-PRO radio modem
Range: depending on modem
I/O refreshing rate: from 100ms**
Digital Inputs: 0/40V NPN
Digital Outputs: 0/40V PNP
Analog Inputs/Outputs: 12 bits 0/20mA or 0/10V
Supply voltage: 10 to 36V
UART data rate: 9.6 / 57.6kbps
Connection to modem & supervisor: RS485
Bus: Modbus RTU
Operating temperature: -10 / +50°C

I/O designation	Part Nb
4 digital inputs + 4 digital outputs	**ARF7663AA**
4 digital inputs + 4 digital outputs + 2 analog inputs + 2 analog outputs	**ARF7663BA**

WIFI® Modems

2.41 / 2.48GHz ▶ **200m range - 802.11b/g/i** **ARF45-PRO**

Sensitivity: -82dBm
UART data rate: 2.4 to 921.6kbps
Supply voltage: 8 to 30V
Serial port: RS232
Flow control: RTS/CTS
Set-up & configuration: RS232 - Telnet / Http
Mode: T*
Operating temperature: -30 / +70°C
Enclosure: IP65 box

Security	Part Nb
WEP64, WEP128, WPA-PSK	**ARF7532I**
WEP64, WEP128, WPA-PSK, WPA2-PSK, WPA2-Enterprise	**ARF7532K**

BLUETOOTH® Dongles

2.41 / 2.45GHz ▶ **150m range - Class1** **ARF62**

Supply voltage: 3.8 to 20V
Sensitivity: -87dBm
UART data rate: 9.6 to 115.2kbps
UART ports: TXD/RXD - RTS/CTS
Profiles: GAP - SDAP - SPP - DUN
Size: 65x20x25mm

Connector / Power supply	Part Nb
DCE/DB9F + power supply	**ARF7501B**
DTE/DB9M + power supply	**ARF7502B**
DTE/DB15HD M + self-powered	**ARF7503C**
DCE/DB9F + DTE/DB9M	**ARF7509A**

Softwares

For a fast and easy installation of the products

Free download on www.adeunis-rf.com

We recommend to use the ADEUNIS RF softwares and programs for configuration, testing and for updating the firmware of the following products:

- ARF53 (from version V1.01)
- «X3-PRO» RF Modems range (ARF33-PRO, ARF43-PRO, ARF53-PRO)
- ARF62 (from version V0.07)
- ARF73 (from version V1.06)
- ARF50
- ARF50-PRO

Addressed **Transparent** **Repeater** **Secured** **Modular**

**Architecture: 1 master to 1 RF slave with a ARF53 modem in WB (rate 57.6kbps)

Remote Control

433.92MHz ▶ 300m range - 1 way ARF18

Remote control
Modulation: ASK
Power: 1mW
Operating temperature: -30 / +70°C

OEM receiver
Consumption: 15mA
Sensitivity: -104dBm
Power supply: 2.7 / 3.6V

Relay receivers
Consumption: 30mA (open relays) - 130mA (closed)
Sensitivity: -104dBm
Power supply: 15 to 30V
Enclosure: IP65 box

Serial decoder
UART data rate: 2.4 to 115.2kbps
Consumption: 16mA (RS232) - 32mA (RS485)
Sensitivity: -104dBm
Power supply: 8 to 30V
Enclosure: IP65 box

Remote control numbers of keys	Part Nb
1 key	**ARF7291A**
2 keys	**ARF7291B**
4 keys	**ARF7291D**
8 keys	**ARF7291R**

Receiver versions		Part Nb
OEM	Outputs: serial interface level, 0/VCC	**ARF7293A**
Relays	1 relay NO/NC	**ARF7341F**
	2 relays 1NO + 1NO/NC	**ARF7341D**
	4 relays 4NO	**ARF7341B**
Serial decoder	Serial port: RS232	**ARF7263K**
	Serial port: USB	**ARF7263S**

869.525MHz ▶ 300m range - 2 ways ARF18

Remote control
Modulation: FSK
Power: 6mW
Operating temperature: -30 / +70°C

OEM receiver
Consumption: 15mA
Sensitivity: -104dBm
Power supply: 2.7 / 3.6V

Numbers ok keys	Part Nb
1 key	**ARF7292A**
2 keys	**ARF7292B**
3 keys	**ARF7292C**
4 keys	**ARF7292D**

Receiver version		Part Nb
OEM	Outputs: serial interface level, 0/VCC	**ARF7294A**

Perform your application in a few minutes

Evaluate ADEUNIS RF products
Perform RF measurements
Develop a prototype

Kit contain
1 demoboard
1 OEM receiver
1 remote control
1 whip antenna
1 RS232 cable

Remote control Starter kit

Versions	Part Nb
433.92MHz - 1 way	**ARF7439S**
869.525MHz - 2 ways	**ARF7439M**

Accessories

Antennas

Impedance: 50 Ohms
TNC connector type: Male

	Designation	Frequency	Gain	Size	Part Nb
	Flexible antenna 1/2 Wave	863/870MHz	2dBi	17.5 cm	**ACC1400AA**
	Antenna 1/2 Wave	902/928MHz	5dBi	21.5 cm	**ACC1400BM**
	Antenna 1/2 Wave	400/440MHz	5dBi	39 cm	**ACC1400AO**
	Antenna 1/2 Wave	425/455MHz	5dBi	38 cm	**ACC1400AP**
	Antenna 1/2 Wave	445/470MHz	5dBi	36.5 cm	**ACC1400AQ**
	Antenna 1/4 Wave + fixing system	400/470MHz	0dBi	10 x 10x 3 cm + 17cm	**ACC1400BP**
	Dual-band GPS/ISM groundplane antenna	869MHz - GPS	2dBi	6.8 x 4.8 x 4 cm	**ACC1400AU**
	Dual-band GPS/ISM groundplane antenna	410/430MHz - GPS	2dBi	diam: 16 cm	**ACC1400AS**
	Groundplane antenna	410/430MHz	2dBi	diam: 16cm	**ACC-1400AE**

Antenna adapters & supports

	Designation	TNC Connector type	Size	Part Nb
	TNC converter package	1 Male/Male + 1 Female/Female	-	**ACC1400AM**
	Fixing system for antenna	Male/Female adapter	10 x 10 x 3 cm	**ACC1400AN**
	DIN Rail fixing systems for ADEUNIS RF IP65 boxes	-	-	**ACC1400AT**

Antenna cables

	Designation	TNC Connector type	Size	Part Nb
	Antenna cable - Coax 0.5dB loss	Male to Female	100 cm	**ACC1400AH**
	Antenna cable - Coax 1dB loss	Male to Female	300 cm	**ACC1400AI**
	Antenna cable - Coax 1.5dB loss	Male to Female	500 cm	**ACC1400AJ**

Power block

	Designation	Connector type	Size	Part Nb
	Power block - 220Vac/50mA to 9Vdc/500mA	Jack 3.5/1.3 «+ on the middle» connector	185 cm	**ACC1400AB**

Data & power cables

	Designation	Connector	Size	Part Nb
	Cable	USB A to serial RS232 converter	60 cm	**ACC1400AG**
	Power cable	USB A to jack 3.5/1.3 «+ on the middle» connector	200 cm	**ACC1400BR**
	Y cable	6 wires (power & data) to DB9F + 2 power wires	200 cm	**ACC1400AC**
	Bundle including * Y cable: ACC-CBL-10011 * Power block: ACC-PWB-10000	6 wires (power & data) to DB9F + 2 power wires + Jack 3.5/1.3 «+on the middle» connector	200 cm + 185 cm	**ACC1400AR**
	Serial RS232 cable	DB9F to DB9M	100 cm	**ACC1400BS**
	Serial RS232 cable	DB9F to DB9F	100 cm	**ACC1400BT**
	4-wire cable	4-wire WAGO terminal block to breakout cable	75 cm	**ACC1400BK**
	4-wire cable	4-wire WAGO terminal block to breakout cable	200 cm	**ACC1400BL**
	4-wire cable for ARF50 chaining		100 cm	**ACC1400BV**

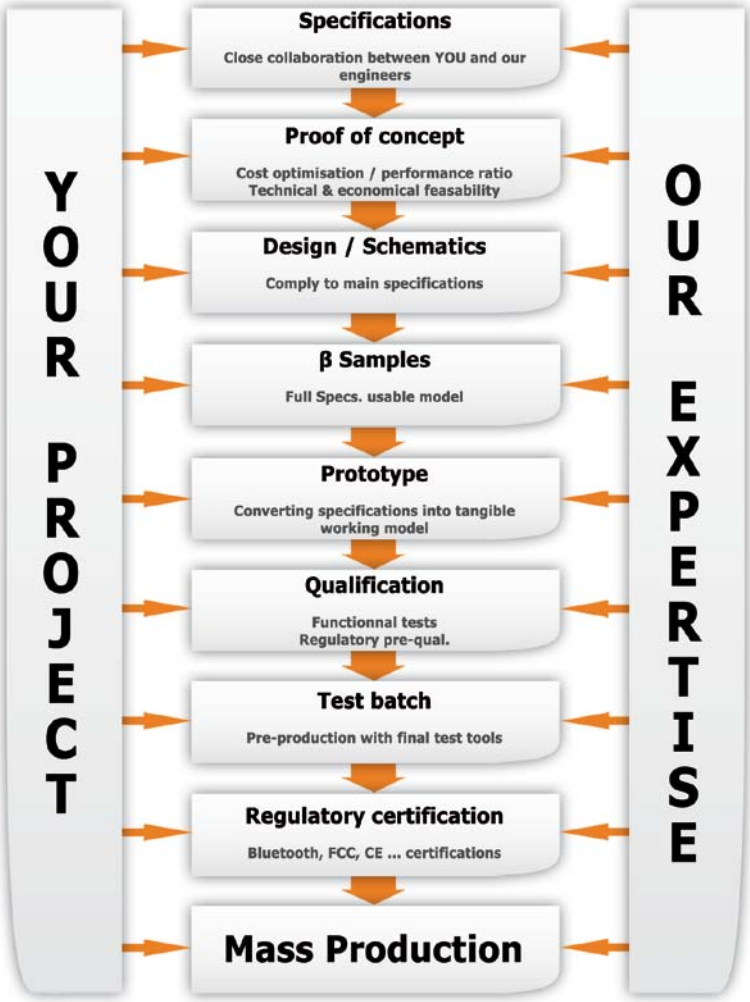
For a quick & safe choice

Accessories selection guide

		ARF33-PRO				ARF43-PRO				ARF53-PRO								ARF73		ARF50 & PRO		ARF45 & PRO		ARF62			
		ARF7474KA	ARF7474LA	ARF7474MA	ARF7474NA	ARF7474OA	ARF7474PA	ARF7474QA	ARF7474RA	ARF7474SA	ARF7474TA	ARF7474UA	ARF7474VA	ARF7474C	ARF7474E	ARF7474G	ARF7474I	ARF7499B	ARF7499C	ARF7663A	ARF7663B	ARF7532I	ARF7532K	ARF7501B	ARF7502B	ARF7503C	ARF7509A
ANTENNAS	ACC1400AA	x	x	x	x	x	x	x	x	x	x	x	x														
	ACC1400BM													x	x	x	x										
	ACC1400AO																	x	x								
	ACC1400AP																	x	x								
	ACC1400AQ																	x	x								
	ACC1400BP																	x	x								
	ACC1400AU	x	x	x	x	x	x	x	x	x	x	x	x														
	ACC1400AS																	x	x								
	ACC1400AE																	x	x								
ANTENNA ADAPTERS & SUPPORTS	ACC1400AM		x		x		x		x		x		x		x		x	x	x								
	ACC1400AN		x		x		x		x		x		x		x		x	x	x								
	ACC1400AT	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					x	x				
ANTENNA CABLES	ACC1400AH		x		x		x		x		x		x		x		x	x	x								
	ACC1400AI		x		x		x		x		x		x		x		x	x	x								
	ACC1400AJ		x		x		x		x		x		x		x		x	x	x								
DATA & POWER CABLES	ACC1400AG																							x	x		x
	ACC1400BR																							x	x		x
	ACC1400AC	x	x			x	x			x	x			x	x							x	x				
	ACC1400AR	x	x			x	x			x	x			x	x												
	ACC1400BS																							x	x		x
	ACC1400BT																										x
	ACC1400BK	x	x			x	x			x	x			x	x			x	x	x	x						
	ACC1400BL	x	x			x	x			x	x			x	x			x	x	x	x						
	ACC1400BV																			x	x						
POWER BLOCK	ACC1400AB	x	x			x	x			x	x			x	x									x	x		x

From idea ... to product ... to market

Short time to market through wireless engineering expertise combinated with low-cost production



Typical applications

Public & consumer market

Home automation
Access control
Alarm - Security
Technical building management
Clock system management
Medical
Electronic surveillance
...

Industry

Remote control for automation
Measurement & telemetry
Remote management
Traceability
On-board systems
Door remote control
Logistics & storage
...

Energy - Environment

Metering
Gas and oil industries
Water treatment
Photovoltaic
Windmill
...

Long range

Site-to-site communication
Electronic display
Signaling
Agriculture
Transport
...

About ADEUNIS RF

Founded in 1993, Adeunis RF is a privately owned independent company, designing and manufacturing solely Wireless Products. Based in the High Tech Valley near Grenoble and partnered with several research institutes and organizations, we benefit from unique technical expertise.

With an installed base of more than 4 million units and an annual production exceeding 500 000 pieces, we have acquired experience in a myriad of markets and applications requiring wireless connectivity. Our success is not only based on profitability and market share, but on building enduring, long term partnerships with our Customers based on our core values of innovation, quality, compliance and environmental responsibility.

Services & skills

Skills area
Solutions using Bluetooth, Wifi & Zigbee standards
Worlwide ISM bands
Rf solutions from kHz to GHz
Low consumption products
Mesh - Addressed - Repeater & Transparent transmission modes

Standard expertise
Owner of several patents
Strong worldwide Standards knowledge
Partnership with European laboratories
Capability to propose pre/full certifications and European Notifications
Strict compliance with Standards: EN300-220, EN301-489, EN300-113, EN60950 ...

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