

APPLICATIONS

RADIO MODEMS

STANDALONE

ACCESSORIES

SHORT FORM CATALOGUE



Stand-Alone products and Accessories



Energy - AMR



Remote energy reading and measurement, urban heating control, energy management in buildings and data centers, remote control of public lighting, energy cartography and regulation. RF solutions developed by ADEUNIS RF enable fine and optimized management of resources while achieving substantial energy savings.

Security & control



ADEUNIS RF is present in many fields linked to the security of goods and persons and access control: building security, alarms, access control to sites and danger zones, control of retractable bollards, management of hourly badge readers, secure stoppage devices for maintenance crews, home automation applications, ...

Military



ADEUNIS RF develops and installs RF systems, dedicated on-board systems in the military and defense sectors: target carrier systems, control of fuel cells and drones, night vision, frontier surveillance, etc...

General public



Geolocation systems, remote control of autonomous humanoid robots, maintenance of ticket validators, real-time display of the number of parking spaces available, queue management, electronic score displays, totems for fuel, ...,ADEUNIS RF designs and develops radio solutions based on extremely varied customer issues.

Industry



ADEUNIS RF contributes to the development of wireless systems in hostile industrial environments: industrial machine control, automatic system monitoring, trouble shooting, radio control for lifting machines, satellite positioning systems, drilling machines, container tracking, etc.

Transportation



By providing our radio skill, ADEUNIS RF contributes to developing complex systems in the field of transport, such as the control of traffic light priority, information for travellers, timetable synchronisation, car park and vehicle management, electronic display systems, signalling, satellite location systems....

Health



Wireless sensors for patients with respiratory problems, wireless links for intracranial pressure sensors, portable digital radiography appliances, miniature wireless sensors for orthopedic surgery, emergency call systems and satellite location, etc. ADEUNIS RF develops RF customized or catalogue systems, respecting strict constraints specific to the health field.

ARF868 ULR



ARF868 ULR Integrated antenna	ARF7940AA
ARF868 ULR TNC antenna	ARF7940BA

Range	Up to 20km
Frequency	863-870MHz
Power	500mW
Radiated RF Power	27dBm
Number of channels	19 @2.4kbps/27dBm, +500 @2.4kbps/14dBm
Sensitivity	-120dBm
Modes	Transparent, Addressed, Repeater, Network, Legacy X3
RF Data rate	2.4 to 57.6kbps
UART data rate	1.2 to 115.2kbps
Serial port	RS232/RS485 autobaud
Supply voltage	4.5 to 36Vdc
Operating temperature	-30° / +70°C

ARF868 LR



ARF868 LR Integrated antenna	ARF7941AA
ARF868 LR TNC antenna	ARF7941BA

Range	Up to 7km
Frequency	863-870MHz
Power	500mW
Radiated RF Power	27dBm
Number of channels	19 @2.4kbps/27dBm, +500 @2.4kbps/14dBm
Sensitivity	-112dBm
Modes	Transparent, Addressed, Repeater, Network, Legacy X3
RF Data rate	2.4 to 57.6kbps
UART data rate	1.2 to 115.2kbps
Serial port	RS232/RS485 autobaud
Supply voltage	4.5 to 36Vdc
Operating temperature	-30° / +70°C

ARF868 MR



ARF7942AA
ARF7942BA

Range	Up to 4km
Frequency	863-870MHz
Power	25mW
Radiated RF Power	14dBm
Number of channels	+500 @2.4kbps/14dBm, 60 @57,6kbps/14dBm
Sensitivity	-120dBm
Modes	Transparent, Addressed, Repeater, Network, Legacy X3
RF Data rate	2.4 to 57.6kbps
UART data rate	1.2 to 115.2kbps
Serial port	RS232/RS485 autobaud
Supply voltage	4.5 to 36Vdc
Operating temperature	-30° / +70°C

ARF868 LP



ARF868 LP Integrated antenna	ARF7943AA
ARF868 LP TNC antenna	ARF7943BA

Range	Up to 1km
Frequency	863-870MHz
Power	25mW
Radiated RF Power	14dBm
Number of channels	+500 @2.4kbps/14dBm, 60 @57,6kbps/14dBm
Sensitivity	-112dBm
Modes	Transparent, Addressed, Repeater, Network, Legacy X3
RF Data rate	2.4 to 57.6kbps
UART data rate	1.2 to 115.2kbps
Serial port	RS232/RS485 autobaud
Supply voltage	4.5 to 36Vdc
Operating temperature	-30° / +70°C

ARF169 ULR



ARF169 ULR TNC antenna	ARF7944BA

Range	Up to 15km (whip short antenna)
Frequency	169.4-169.6 MHz
Power	500mW
Radiated RF Power	27dBm
Number of channels	11@27dBm
Sensitivity	-122dBm
Modes	Transparent, Addressed, Repeater, Secured
UART data rate	1.2 to 115.2kbps
Supply voltage	4.5 to 36Vdc
Operating temperature	-30° / +70°C

ARF53-915MHz



ARF53-915MHz Integrated antenna RS232 / RS485	ARF7474CF
ARF53-915MHz TNC antenna RS232 / RS485	ARF7474EF
ARF53-915MHz Integrated antenna USB	ARF7474GF
ARF53-915MHz TNC antenna USB	ARF7474IF

Range	Up to 6km
Frequency	902-928MHz
Power	500mW
Radiated RF Power	27dBm
Number of channels	50 FHSS
Sensitivity	-112dBm
Modes	Transparent, Addressed, Secured
UART data rate	9.6 / 57.6kbps
Supply voltage	4.5 to 36Vdc
Operating temperature	-30° / +70°C

WIFI® MODEMS

ARF45 PRO



ARF45 PRO WEP64, WEP128, WPA-PSK	ARF7532I
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ARF45 PRO	WEP64, WEP128, WPA-PSK, WPA2-PSK,	
WPA2- Enterp	rise	ARF7532K

Range	Up to 200m
Frequency	2.41-2.48GHz
Power	32mW
Sensitivity	-82dBm
Modes	Transparent
Serial port	RS232
UART data rate	2.4 to 921.6kbps
Set up & Configuration	RS232 - Telnet / HTTP
Supply voltage	8 to 30Vdc
Operating temperature	-30° / +70°C

UNDER LICENCE FREQUENCIES RADIO MODEMS

ARF73



ARF73 TNC antenna RS232	ARF7499B
ARF73 TNC antenna RS485	ARF7499C
ARF73 TNC antenna RS232 - STIF	ARF7499D

Range	Up to 25km
Frequency	406-470MHz
Power	0.5 to 4W
Radiated RF Power	27 to 36dBm
Sensitivity	-115dBm
Modes	Transparent, Addressed, Repeater
RF data rate	4.8 / 9.6kbps
Serial data rate	9.6 / 115.2kbps
Serial port	RS232 or RS485
Supply voltage	10 to 28Vdc
Operating temperature	-30° / +70°C

Transmitter Wireless M-Bus



W-MBus Transmitter AMR	Gas	ARF7904
W-MBus Transmitter AMR	Water	ARF7906

Radio transmission of meter data (consumption index)

RF Radiated power: 14dBm (25mW)

Range: up to 1000m

Extremely simple and fast installation

Up to two meters per transmitter

Up to 12 years of autonomy on battery (T1 - 10s)

IP65 and ATEX standards

Gas & Water version

Repeater Wireless M-Bus



W-MBus Repeater AMR	Mains	ARF7923AA
W-MBus Repeater AMR	Self powered	ARF7924AA

Radio repetition of Wireless M-Bus consumption indexes

RF Radiated power: 14dBm (25mW)

Sensitivity: -117dBm

Range: up to 1000m

Up to 200 products can be repeated (T1 mode), up to 60 products repeated (S1 mode), $\frac{1}{2}$

up to 30 products repeated (R1 mode)

Extremely simple and fast installation

Several repeaters can be associated

Mains or self-powered version

IP65 standard

Receiver Wireless M-Bus



W-MBus Receiver AMR RS232	ARF7922BA
W-MBus Receiver AMR RS485	ARF7922CA
W-MBus Receiver AMR USB	ARF7922EA

Radio reception of Wireless M-Bus consumption indexes

RF sensitivity:-117dBm

Extremely simple and fast installation

RS232 or RS485 serial port, USB port

Mains power supply

External antenna

IP65 standard

The combination of products in the Adeunis RF AMR range allows you to create an independent ecosystem to ensure the emission, transport and collection of consumption indexes using Wireless M-Bus protocol.

Our Wireless M-Bus solution provides a **full compatibility with EN 13757-4: 2005 standard**.



Gateway W-MBus/GPRS



AMR GATEWAY BATTERY / INT.ANTENNA	ARF8011AA
AMR GATEWAY BATTERY / EXT.ANTENNA	ARF8011BA
AMR GATEWAY MAINS / INT.ANTENNA	ARF8015AA
AMR GATEWAY MAINS / EXT.ANTENNA	ARF8015BA

W-MBus data collector / GPRS transmission
RF Radiated power : 14dBm (25mW)
Range: up to 1000m (W-MBus)
Extremely simple and fast installation
GSM/DCS GPRS module
Lifespan self-powered version: up to 5 years
IP67 and IK8 standards
Mains or self-powered version

USB Dongle Wireless M-Bus



USB Wireless M-Bus transmitter/receiver
RF radiated power : 14dBm (25mW)
Range: up to 200m
Extremely simple and fast installation
W-Mbus modes: R1, R2 / S1, S1-m, S2 / T1, T2
Power supply : 5V/USB
Standards: EN 300-220, EN 301-489, EN 60950, EN 13757-4:2005

ARF8020AA

DONGLE USB WMBUS AMR

ARF51 PRO



ARF51 PRO	4 digital $I/O + 2$ analog I/O	ARF8029BA

Range	Up to 20km (integrated RF 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 36Vdc
UART data rate	9.6 / 57.6kbps
Bus	RTU Modbus
Operating temperature	-10°/+70°C

ARF51



ARF51 4 digital I/O	ARF8029AA	
Range	Up to 20km (integrated RF modem)	
I/O refreshing rate	from 100ms	
Digital Inputs	0/40V NPN	
Digital Outputs	0/40V PNP	
Supply voltage	10 to 36Vdc	
UART data rate	9.6 / 57.6kbps	
Bus	RTU Modbus	
Operating temperature	-10°/+70°C	

ARF50 PRO & ARF50



ARF50 PRO 4 digital I/O + 2 analog I/O	ARF7663BA
ARF50 4 digital I/O	ARF7663AA

	ARF50 PRO	ARF50	
Range	Up to 25km (depending on radio modem		
Kalige	connected)		
I/O refreshing rate	from 100ms	from 100ms	
Digital Inputs	0/40V NPN	0/40V NPN	
Digital Outputs	0/40V PNP	0/40V PNP	
Analog Inputs/Outputs	12 bits 0/20mA		
	or 0/10V voltage		
Supply voltage	10 to 36Vdc	10 to 36Vdc	
UART data rate	9.6 / 57.6kbps	9.6 / 57.6kbps	
Connection to modem	RS485	RS485	
& supervisor	N3403	N3403	
Bus	RTU Modbus	RTU Modbus	
Operating temperature	-10°/+70°C	-10°/+70°C	

BLUETOOTH® DONGLES





ARF62 DCE/DB9F + power supply	ARF7501B
ARF62 DTE/DB9M + power supply	ARF7502B
ARF62 DTE/DB15HD M + self-powered	ARF7503C
ARF62 DCE/DB9F + DTE/DB9M	ARF7509A

Range	Up to 150m
Frequencies	2.41-2.45GHz
Sensitivity	-87dBm
RF data rate	Up to 723kbps
Serial port	DCE/DB9 - DTE/DB15
Profiles	GAP - SDAP - SPP - DUN
Size	65 x 20 x 25mm

REMOTE CONTROL 433MHz - 1 way

ARF18



ARF18 remote control 1 key	ARF7291A
ARF18 remote control 2 keys	ARF7291B
ARF18 remote control 4 keys	ARF7291D
ARF18 remote control 8 keys	ARF7291R

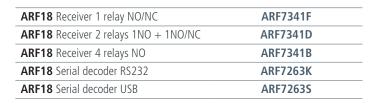
Range	150m
Frequency	433.92MHz
Power	1mW
Operating temperature	-30° / +70°C

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Sensitivity	-104dBm
Frequency	433.92MHz
Consumption	15mA
Outputs	Serial interface level, 0/VCC
Power supply	2.7-3.6V

ARF7293A

ARF18 OEM Receiver



Sensitivity	-104dBm	
Frequencies	433.92MHz	
Consumption	16mA (RS232) - 32mA (USB)	
Power supply	8 to 30V	
Enclosure	IP65 box	
Operating temperature	-30° / ±70°C	



REMOTE CONTROL 869MHz - 2 ways

ARF18



ARF18 remote control 1 key	ARF7292A
ARF18 remote control 2 keys	ARF7292B
ARF18 remote control 3 keys	ARF7292C
ARF18 remote control 4 keys	ARF7292D

Range	300m
Frequency	869.525MHz
Power	6mW
Operating temperature	-30° / +70°C



ARF18 OEM Receiver	ARF7294A

Sensitivity	-104dBm
Frequency	869.525MHz
Consumption	15mA
Outputs	Serial interface level, 0/VCC
Power supply	2.7-3.6V

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	OdBi	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
88	TNC converter package	1 Male/Male + 1 Female/Female	-	ACC1400AM
	Fixing system for antenna	Male/Female adapter	10 x 10 x 3 cm	ACC1400AN
ı İ	DIN Rail fixing system for ADEUNIS RF IP65 boxes	-	-	ACC1400AT

Antenna cables

	Designation	TNC Connector type	Size	Part Nb
\bigcirc	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 blocks

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
Power block - 100- 240V - 50/60Hz - 250mA 9V	For ARF868 modems with lockable jack connector	200cm	ACC1500AC

IP Protection for ARF868 modems

	Designation	Part Nb
IP53 Protection for ARF868 modem		ACC11500AD
55	IP67 Protection for ARF868 modem	ACC1500AE

Bracket accessories for ARF868 modems

	Designation	Part Nb
	Wall mount for ARF868 modem	208816
A STATE OF THE STA	Tube mount for ARF868 modem	208815

Miscellaneous for ARF868 modems

Designation	Part Nb
Lockable Jack connector for ARF868 modem	ACC1500AA
Clamping tool for ARF868 modem Jack connector	208820

Data & Power cables

	Designation	Connector	Size	Part Nb
	Cable	USB to serial converter for ARF868 modem	150 cm	ACC1500AB
	Serial RS232 cable	DB9F to DB9M	100 cm	ACC1400BS
	Serial RS232 cable	DB9F to DB9F	100 cm	ACC1400BT
Q	4-wire cable	4-wire WAGO terminal block to breakout cable	75 cm	ACC1400BK
O	4-wire cable	4-wire WAGO terminal block to breakout cable	200 cm	ACC1400BL
\bigcirc	4-wire cable for ARF50 chaining		100 cm	ACC1400BV

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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 Wireless M-Bus, Bluetooth®, Wifi® standards Worldwide ISM bands RF solutions from kHz to GHz Low consumption products Network - 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, EN13757 EN60950 ...



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