A RF18

1 to 8 keys 1-way and 2-ways radio remote control

The ARF18 low cost remote controls enable wireless control of **1 to 24 digital states (by simultaneously pressing 2 keys or switch)** over a distance of **300m.**

They are available in **one-way or two-ways versions** on respectively 433.92 or 869.52MHz and are **approved according to the European directive RTTE EN 300-220/EN 301-489.**

Security of transmission is ensured by means of a proprietary rotating code and a unique serial number.

They are associated with a complete range of **RS232 or USB serial decoder & serial link, 4 relays or 4 binary outputs receivers.**

In the **two-ways version**, the return acknowledgement of the sent command validates the correct transmission of the order and thus provides a maximum level of security for applications involving access control, alarms...

More generally, these products cover applications ranging from **simple domestic remote control to autonomous control of tertiary or industrial equipment,** in sectors of activity such as home automation, systems automation, industrial automation...

Specifications

Remote control	1-way version	2-ways version
• Frequency	433.92MHz	869.525MHz
• Radiated RF power	1mW	6mW
• Temperature range	-30/+70°C	-20/+70°C
• Modulation	ASK	FSK
• Number of keys	1 to 8	1 to 4

OEM receiver - asynchronous link
• Power supply (Vcc)	3.3V nominal	2.7 to 3.6V nominal
• Consumption in receipt	15mA	15mA
• Sensitivity	-104dBm	-104dBm
• Outputs	Serial interface level 0/VCC	Serial interface level 0/VCC
	4 binary outputs	4 binary outputs

4 relays receiver
* Power supply — 15 to 30VDC
* Consumption — 30mA open relays (130mA closed)
* Switching capacity — 230VAC max 10A
* Relays — 3 NO + 1 NO/NC

Serial decoder
* Serial ports — RS232 or USB
* Format — 8 bits, no parity, 1 stop
  configuration through AT commands
* Serial link rate — 2.4 to 115.2kBps
* Power supply — 8 to 30VDC

DemoKit - Integration kit including : demoboard, module, remote control, RS232 cable, power supply
* Evaluate the products
* Perform RF measurements
* Develop a prototype

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Part Numbers

	One-way	Two-ways
Remote control	ARF7291X*	ARF7292X**
OEM receiver	ARF7293A	ARF7294A
4 relays receiver - IP65 box	ARF7341B	-
RS232 serial decoder - IP65 box	ARF7263K	-
USB serial decoder - IP65 box	ARF7263S	-
DemoKit	ARF7439S	ARF7439M

* X=index A/B/C/D/R = 1/2/3/4/8 keys
** X=index A/B/C/D = 1/2/3/4 keys

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