

A RF18

Universal wireless remote control systems with receivers



The **ARF18** long range remote controls enable wireless control of 1 to 24 digital states over a distance of 300m.

ARF18

These remote controls are available in one-way or two-way versions (433 or 868MHz) 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 1, 2 or 4 relays receivers, OEM receivers, serial decoder (RS232 or USB).

In the two-way version, the command acknowledgement provides a maximum level of security for applications involving access control, alarms...

More generally, these products cover multiple applications 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...

Technical specifications

| Remote control | One-way version | Two-way version |
|---|--|---|
| Frequency | 433.92MHz | 869.525MHz |
| Radiated RF power | 1mW | 6mW |
| Temperature range | -30/+70°C | -30/+70°C |
| Modulation | ASK | FSK |
| Number of keys | 1, 2, 4 and 8 keys | 1, 2, 3 and 4 keys |
| 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 4 binary outputs | Serial interface level 0/VCC 4 binary outputs |
| 1, 2 or 4 relays receiver | | |
| Power supply | 15 to 30 VDC | |
| Consumption | 30mA open relays (130mA closed) | |
| Switching capacity | 230VAC max 10A | |
| Relays | * 1 relay: 1NO/NC * 2 relays: 1NO + 1NO/NC * 4 relays: 3NO + 1NO/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 | |
| Starter-Kits | | |
| Integration kit for: | * 1 demoboard including * Evaluate the products * Perform RF measurements * Develop a prototype | * 1 demoboard including * 1 mother board with * 1 soldered OEM RF module * 1 remote control * 1 whip antenna * 1 RS232 cable |

Part numbers

| | One-way version | Two-way version |
|---------------------------------|-----------------|-----------------|
| Remote control | ARF7291X* | ARF7292X** |
| OEM receiver | ARF7293A | ARF7294A |
| 1 relay receiver - IP65 box | ARF7341F | |
| 2 relays receiver - IP65 box | ARF7341D | |
| 4 relays receiver - IP65 box | ARF7341B | |
| RS232 serial decoder - IP65 box | ARF7263K | |
| USB serial decoder - IP65 box | ARF7263S | |
| Starter-Kits | ARF7439S | ARF7439M |

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

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



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