

ARF169 ULR Radio Modem

Highlights

- Range up to 15km
- 10 channels @27dBm
- Immediately usable
- Configuration through dedicated software
- RF data rates from 2.4 to 38.4kbps
- RS232/485 or USB serial port



The **ARF169 ULR** (Ultra Long Range) is a new generation radio modem that enables a wireless bidirectional half duplex data transmission **up to 15km**.

This 500mW product is available in TNC connector version for small size whip antennas (up to 15km) or deported antennas (more than 15km range), useful in disturbed environments use.

Operating on 169 MHz frequencies, this modem is **certified and can be used without a license**.

To enable rapid implementation, the ARF169 ULR is equipped with a SubD9 serial connector which offers automatic recognition of the type (RS232/RS485) and data rate (autobaud).

An optional Serial to USB bridge is also available.

In order to permit their use for applications over **very long distances** or in harsh environment, **ARF169s are offering a repeater function**.

The small, lightweight and robust body is including a DIN rail mounting for immediate integration in industrial environment. For harsh environments requiring greater protection of modems, **IP53 and IP67** protections are available.

Certified, the ARF169 radio modems comply with the **2010 edition of European R & TTE Directive EN300-220**.

Performances ARF169 ULR

Range up to : 15km
Power : 500mW
Radiated RF power : 27dBm
Sensitivity : -122dBm
Frequencies : 169.4-169.59MHz
RF Data rates : from 2.4 to 38.4 kbps
Number of channels @27dBm : 10

Consumption & needs

Power supply : 4.5 to 36Vdc

Firmware

Transparent mode
Addressed mode
Repeater mode

General information

Dimensions : 130x75x35mm (without antenna)
Weight : 155g
Operating temperature : -30°C to +70°C
Standards : EN300-220 V2010 / EN301-489 / EN60950

Hardware

Serial data rate : 1.2 to 115.2kbps
Ports série : RS232 - RS485 - USB option
Flow control : None or RTS/CTS

References

- **ARF7944BA** ARF169 ULR RADIO MODEM - TNC. ANTENNA

ADEUNIS RF

283 rue Louis Néel - Parc Technologique Pré Roux
38920 CROLLES - France
Tel. : +33 (0)4 76 92 07 77 - Fax : +33 (0)4 76 04 80 87
www.adeunis-rf.com - arf@adeunis-rf.com