

802.15.4 Low Power Wireless

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Bundle Wireless deRFmega128-22C02




Art.no.: 30126



Unit price:
32,49 EUR

plus sales tax and shipping



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Main component of the affordable and high performance wireless module  **deRFmega128-22C02** is a 2.4 GHz radio transceiver ATmega128RFA1 [ [datasheet](#)] which has been recently launched by Atmel. It is the single chip solution of a 8Bit-AVR microcontroller.




The wireless module is intended for wireless solutions in accordance with the standard IEEE 802.15.4 and for für ZigBee[®] / 6LoWpan / RF4CE applications. Special features of this module is its compact design and the pluggable application. The 46 pins of two plug connectors provide full access to all functions of the ATmega128RFA1. A serial EEPROM with the capacity if 1MBit offers high memory capacity e.g. for a firmware update on-air.

The cable of the provided  **pigtail** allows a distance of 150 mm between the radio module and the  **antenna** which is also included in the bundle. With connected antenna the integrated transceiver generates typical +2.4 dBm ERP transmit power and obtains a receiver sensitivity of -101 dBm. Ranges of over 200 m in a free field can be reached. A hardware 128-Bit AES encryption engine is part of the transceiver.



The power supply range is from 1.8 VDC to 3.6 VDC. In the transmit and receive mode the power consumption is approx. 18 mA, in sleep mode it is less than 2 µA. The module contains is a 32 kHz low power timer.

deRFmega128-22C02 is certified according to  **ETSI** and  **FCC Part-15**.

Components

- 1 wireless module  **deRFmega128-22C02**
- 1  **pigtail**
- 1  **antenna**

Further wireless boards of dresden elektronik

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