



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Bundles of AVR radio modules

The bundles are comprised of the especially current-saving radio modules of the deRFmega128 series, a pigtail interface adapter and an external antenna. The 150 mm long pigtail facilitates to place the stubby antenna also belonging to the bundle spatially apart. The transmitting power of the radio module with connected antenna typically amounts to +2.4 dBm ERP. The provided antenna enables a range of greater than 200 m.

### Options / Versions

The bundles are available either with a pluggable or solderable AVR radio module with U.FL coaxial jack, pigtail and external antenna.

### Software

All radio modules are already equipped with a wireless UART and can be operated immediately.

### Content:

- Radio modules:  
SMT or THT version of the deRFmega128 AVR radio module with U.FL coaxial jack
- Accessories:  
interface adapter pigtail,  
quarter wave stubby antenna 2.4 GHz rigid



## Technical data of the deRFmega128 AVR radio modules

Dimensions	THT: 30 x 22.7 x 8.2 mm (22A02), SMD: 30 x 20.5 x 4.1 mm (22C02)
Operating temperature	-40°C ... +85°C
Control and display elements	none
Power supply	1.8 - 3.6 VDC
Power consumption	active: 18 mA TX/RX power-down: < 2 µA
Connections	2 x 23 pin socket
Antenna	quarterwave stubby antenna 2.4 GHz
Range	> 200 m (line of sight)
Frequency range	2.4 GHz
Transmitting power	+2.4 dBm ERP
Receiver sensitivity	-101 dBm
IEEE Standard	802.15.4
Microcontroller	ATmega128RFA1
Transceiver	integrated
Data rate (gross)	250/500 kbit/s, 1 Mbit/s, 2 Mbit/s
Interfaces	JTAG, UART, I2C, ADC, GPIO, SPI
Certification	CE, ETSI, FCC

