

Radio Modules USB Sticks

development boards _ development kits



868 MHz | 915 MHz | 2.4 GHz
ZigBee® | 6LoWPAN | RF4CE
IEEE 802.15.4



Radio Modules | USB Radio Sticks

Module	Type	Frequency	Range	CPU	Data rate	Transceiver	Antenna	Transmitting power	Receiver sensitivity	Interfaces
deRFmega128-22A00 22C00	module	2.4 GHz	> 200 m	ATmega 128RFA1	250, 500, 1000, 2000 kbps	integrated	onboard chip	+2.4 dBm	-100 dBm	I2C, UART, A/D, I/O, JTAG
deRFmega128-22A02 22C02	module	2.4 GHz	> 200 m	ATmega 128RFA1	250, 500, 1000, 2000 kbps	integrated	external (U.FL Jack)	+2.4 dBm	-100 dBm	I2C, UART, A/D, I/O, JTAG
deRFarm7-25A00 25C00	module	2.4 GHz	> 200 m	AT91SAM7X512	250, 500, 1000, 2000 kbps	AT86RF231	onboard chip	+2.4 dBm	-101 dBm	I2C, UART, A/D, I/O, JTAG
deRFarm7-25A02 25C02	module	2.4 GHz	> 200 m	AT91SAM7X512	250, 500, 1000, 2000 kbps	AT86RF231	external (U.FL Jack)	+2.4 dBm	-101 dBm	I2C, UART, A/D, I/O, JTAG
deRFarm7-15A00 15C00	module	868/915 MHz	> 200 m	AT91SAM7X512	20, 40, 100, 200, 250, 400, 500, 1000 kbps	AT86RF212	onboard chip	+2.4 dBm	-110 dBm	I2C, UART, A/D, I/O, JTAG
deRFarm7-15A02 15C02	module	868/915 MHz	> 200 m	AT91SAM7X512	20, 40, 100, 200, 250, 400, 500, 1000 kbps	AT86RF212	external (U.FL Jack)	+2.4 dBm	-110 dBm	I2C, UART, A/D, I/O, JTAG
deRFusb-14E00	stick	868/915 MHz	> 200 m	AT91SAM7S256	20, 40, 100, 200, 250, 400, 500, 1000 kbps	AT86RF212	onboard chip	+4 dBm	-110 dBm	USB, JTAG, DBGU
deRFusb-24E00	stick	2.4 GHz	> 200 m	AT91SAM7S256	250, 500, 1000, 2000 kbps	AT86RF231	onboard chip	+3 dBm	-101 dBm	USB, JTAG, DBGU



Development Boards

Board	Application
Sensor Terminal Board (STB)	startup board with RCB interface, USB, LEDs, buttons
deRFtoRCB	stand-alone board and interface adapter from deRF to RCB
Breakout Board (BB) BB light	startup board with RCB interface
deRFnode	with USB and several sensors (light, acceleration, temperature); for deRF modules
deRFgateway	just like deRFnode, additional with Ethernet interface



Development Kits

Kit	Application
deRFdevelopmentKit mega128	development platform for fast adaption and start up of the deRFmega128 with a Sensor Terminal Board
deRFdevelopmentKit USB900	development platform for fast adaption and integration of deUSB900 in wireless applications
deRFdevelopmentKit USB2400	development platform for fast adaption and integration of deUSB900 in wireless applications

Accessories for modules and network solutions (antennas, cables and adapters) you will find in our online shop (http://www.dresden-elektronik.de/shop/cat4_31.html)

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