

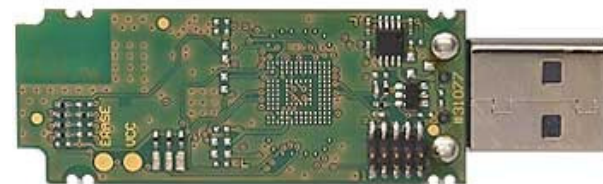


USB radio stick deRFusb-23E00 JTAG

ZigBee® / 6LoWPAN / RF4CE

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- The compact designed USB radio stick deRFusb-23E00 JTAG contains a powerful Cortex-M3 microcontroller with 256 kBytes High-Speed Flash and a 2.4 GHz-ISM-band transceiver.
- The transceiver AT86RF231 is intended for ZigBee, IEEE 802.15.4, 6LoWPAN, RF4CE and proprietary ISM applications. It uses an 128-Bit AES encryption.
- With the integrated chip antenna distances of more than 200 m can be reached for line of sight conditions.
- The radio stick is equipped with 3 LEDs for status indication and a 10pin connector for development purposes (JTAG and Debug).



Technical Data

Dimensions	63.5 x 19.0 x 9.5mm
Operating temperature	-20°C to 70°C
Control and display elements	3 x LED (red, yellow, green)
Power supply	USB powered
Power consumption	Idle: 45mA TX/RX on: 65mA
Connections	USB Connector Type A 10 Pin Connector
Antenna	Chip ceramic antenna
Antenna gain	+1.3 dBi (Peak), -0,5 dBi (Average)
Antenna diversity	no
Range	> 200 m (line of sight)
Frequency range	2.4 GHz
Transmitting power	+3 dBm
Receiver sensitivity	-101 dBm
Communication standard	802.15.4
Data rate	250 kBit/s, 500kBit/s, 1MBit/s, 2MBit/s
Microcontroller	ATSAM3S4BA
Transceiver	AT86RF231
Interfaces	USB, JTAG and Debug
Certification	CE, ETSI, FCC, IC pending

Technical Data



dresden elektronik
ingenieurtechnik gmbh

www.dresden-elektronik.de

Contact

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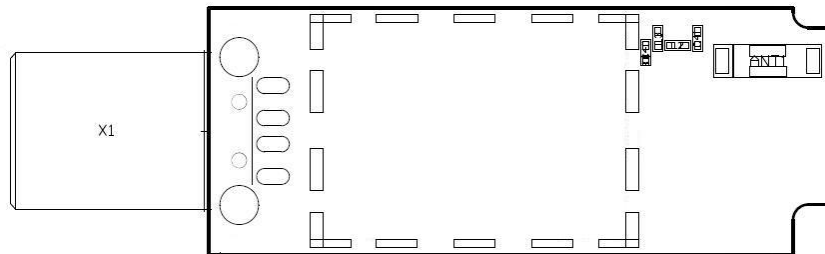


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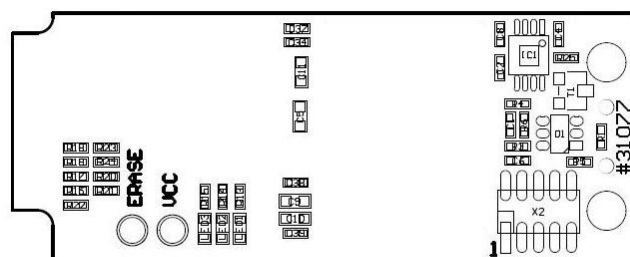
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Pin configuration



(Top view)



(Bottom view – with 10pin)

Connections

Scope of delivery

USB stick deRFusb-23E00 JTAG

Order No.

BN-032310

Accessories (optional)

SAM-ICE adapter

BN-028337

Development kits

deRFdevelopmentKit usb 2,4 GHz

coming soon

deRFdevelopmentKit ZigBee 2.4 GHz

coming soon

deRFdevelopmentKit 6LoWPAN 2.4 GHz

coming soon

Board versions

USB stick deRFusb-13E00 JTAG

coming soon

Scope of delivery / Accessories

Versions

Visit the online shop: <http://www.dresden-elektronik.de/shop/cat4.htm>

- technical information subject to change without notice -



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