The compact designed USB radio sticks deRFusb-23E00 | 06 contain a powerful Cortex-M3 microcontroller with 256 Kb 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 a 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.
- The stick comes optionally with a 2 Gb NAND on board that can be used as mass storage for user defined data.

Technical Data

Datasheet

Dimensions **Operating temperature Control and display elements Power supply Power consumption** Connections Antenna Antenna gain Antenna diversity Range **Frequency range Transmitting power Receiver sensitivity Communication standard** Data rate Microcontroller Transceiver Additional non-volatile memory Interfaces

Certification

71.0 x 23.0 x 8.7 mm (case) -20°C to 70°C 3x LED (red, yellow, green) USB powered TX: 65 mA | RX: 64 mA | Idle: 45 mA USB connector type A Chip ceramic antenna +1.3 dBi (peak) | -0.5 dBi (average) No > 200 m (line of sight) 2.4 GHz +3 dBm -101 dBm IEEE 802.15.4 250 kBit/s, 500 kBit/s, 1 MBit/s, 2 MBit/s ATSAM3S4B AT86RF231 None (deRFusb-23E00) 2 Gb NAND flash (deRFusb-23E06) USB, optional: JTAG and Debug CE, ETSI, FCC, IC pending

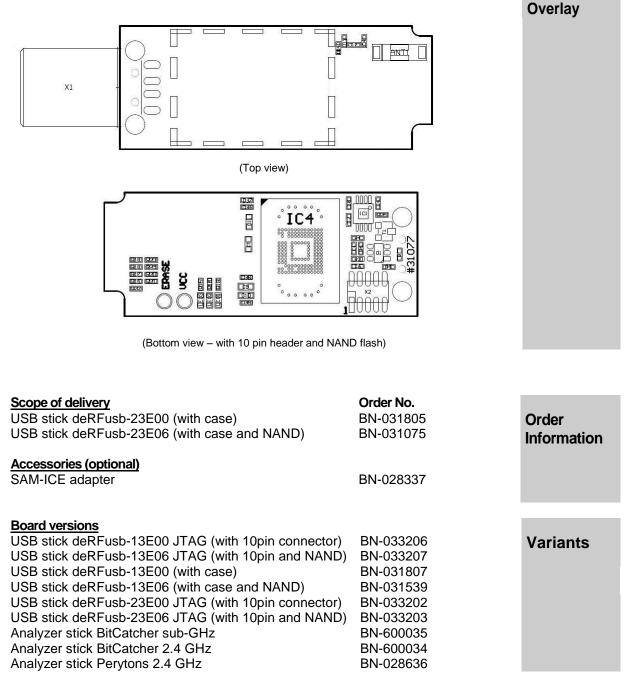






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More information about the variants is described in detail in the user manual. Order online: https://shop.dresden-elektronik.de

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Board Overlay

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