This is one device of a paired transceiver set, one a USB key/stick, the other a battery operated sensor board.

The USB stick/key (EUT) connects to a USB port and provides a link to the remote device, a XYZ accelerometer sensor board. This set functions as an engineering demonstration of the Freescale chip set technology and is not intended for final use applications.

The EUT is a dual-layer printed circuit board (PCB). It contains the basic design of the MC13191 RF transceiver implementing the ZigBee protocols and is connected through an 8-bit MCHC908JW32 microcontroller to the host device USB port. Its main task is to receive data from the Sensor Board and transfer it to the PC over the USB link.

Once inserted into a USB slot, the EUT hunts for the companion Sensor Board by sequentially and slowly polls each channel until a link is made with the companion Sensor Board. Once a link is obtained, data is received in a continuous stream from the Sensor Board. The EUT resumes polling for the Sensor Board if the Sensor Board goes out of range, exhausts its battery, or is manually switched off.

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