

Operational Description for Bluetooth Low Energy Radio used in the Medamonitor LEVL Device

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The Medamonitor LEVL Device contains a Bluetooth Low Energy (BLE) radio consisting of the Nordic Semiconductor NRF8001 integrated circuit, necessary passive components, and a printed circuit board (PCB) antenna. All of the radio functions use a 16 MHz crystal oscillator as the frequency reference. Communication between the NRF8001 and system microcontroller is provided via serial peripheral interface (SPI). A Direct Test Mode (DTM) is provided via 2-wire UART interface.

Transmit power of the NRF8001 is programmable with nominal output levels of 0, -6, -12 and -18 dBm. 0 dBm is set by software in the LEVL Device. The BLE is compliant with Bluetooth Specification v4.0.