

# Technical Note

Subject: **Block diagram - BC5 headset**

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Date: 30 May 2007

Document ref: LKT028 01

## 1 Theory of Operation/Functional Description

The Bluetooth transceiver, BC5-MM, runs of a 26MHz crystal generating suitable internal frequencies. The BC5-MM operates in accordance with the Bluetooth Core Specification v2.0. I.e. it uses adaptive frequency hopping operating over 79 channels in the 2400-2483.5MHz range. Each channel has a 1MHz bandwidth using GFSK modulation with a maximum output power of 0dBm. It is a direct conversion transmitter/receiver using an IQ-modulator. It has built in speaker drive and microphone input.

The MMI consist of five buttons, volume +/- and three multifunctional buttons. In addition there are 2 LED's used for indication of different modes of operation of the product, e.g., charging, pairing, etc.

## 2 Block Diagram

