## Exhibit 2 Operational / Technical Description

The circuit provides three main functions: general purpose micro-processor, rf transceiver and magnetic sensors. Each circuit has its own power supply and regulator, and corresponding filter and noise-reducing capacitors. The microprocessor controls the rf transceiver and the magnetic sensors. The microprocessor is a TI MSP430F149, the rf transceiver is a Chipcon CC2420 802.15.4 compliant transceiver in the 2.4 GHz ISM band. The magnetic sensors is a circuit made up of analog circuit components and Honeywell magnetic sensors. The devices start by listening on the RF transceiver for a packet from an access point device. Upon receiving this packet, the device starts sampling the magnetic sensors. The magnetic sensor data, either in raw format or processed format, is then transmitted by the device using the RF transceiver.

The antenna is a ceramic patch antenna, loaded monopole antenna, or a slot antenna. In any case, one side of the PCB is ground, acting as the ground plane for the antenna. The unbalanced antenna output operates at 50 ohm impedance.