January 20, 2012

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, Maryland 21046

Dear Application Examiner:

Brief Description of the ITA-1 Product

The ITA-1 is a wall mounted home monitor system that communicates with several Zigbee sensors within the home. If an event is detected by a sensor (such as a door opening), it is reported to the Hub via ZigBee wireless. Upon receiving the event description from the sensors, the ITA-1 Hub then automatically sends an SMS alert message to the homeowner and/or other contacts via the GSM cellular network. A WLAN link is also present and available as an alternate to GSM.

The quad band radio module used is the U-Blox LEON-G100. The ZigBee 32-bit coordinator module is a Freescale MC-13224VR2 and the WLAN module is the Atheros AR6103. These are mounted on a single PC board inside the Hub device.

There are 2 separate bent metal antennas mounted on a single plastic carrier piece. The GSM antenna is oriented horizontally near the top of the device. The ZigBee coordinator and Atheros WLAN module share an antenna, which is mounted vertically along the left edge of the device. Through software switching, either ZigBee or WLAN has control of the antenna, but never both at the same time. It is highly unlikely that the GSM and ZigBee antennas will ever transmit at the same time. The WLAN can only transmit by itself. The GSM and ZigBee/WLAN antennas are spaced approximately 46mm apart.

The Hub uses standard 110V-120VAC but also requires a 3.7V Li-Ion battery pack for backup power.

A QVGA LCD display with touch screen is used to interact with the Android application.

The ITA-1 Hub and sensor system is installed and configured by the end user. A Quick Start pamphlet is provided and a full User's Guide will be available for download from the iTextAlert Web site.

Your efforts in reviewing this application are greatly appreciated.

Sincerely,

Rick Trueblood
Chief Operating Officer

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