Implementation of Ultra Low Power Gadget for Mobile Phone

Abstract

The increasing popularity of communication has ushered in concern over security-related issues. Today’s Smartphone and tablet device are very costly ranging from 300 USD to 600 USD, to avoid them to get forget at any social places, we can have gazette which will warn us (beep) this device is left back. To make commercialize product which will act as mobile watchmen, with specification and characteristic like smallest device footprint, comfortable to carry along, ultra low power consumption to increase battery life and to avoid frequent charging, ultra low Sleep currents and efficient performance. As per this specification we will develop a mobile phone watchman gadget which will connect to mobile phone by Bluetooth connectivity if this gadget will go beyond 4 to 6 meters gadget will beep loud when Bluetooth connectivity breaks

References

  - Bluetooth® Core Technical Specification document, version 4.0 online available at http://www.bluetooth.com/SiteCollectionDocuments/Core_V40.zip
  - CC253x System-on-Chip Solution for 2.4-GHz IEEE 802.15.4 and ZigBee® Applications/CC2540 System-on-Chip Solution for 2.4-GHz Bluetooth low energy Applications
  - CC2540 controller datasheet for 2.4-GHz Bluetooth low energy System-on-chip online available at www.ti.com
  - Design of an ultra-low power device for aircraft structural health monitoring Perelli, Alessandro ; Caione, Carlo ; De Marchi, Luca ; Brunelli, Davide ; Marzani, Alessandro; Benini, Luca Design, Automation & Test in Europe Conference & Exhibition (DATE) 2013 Digital Object Identifier: 10.7873/DATE.2013.236 Publication Year: 2013, Page(s): 1127 – 1130
  - Practical Applications of Low-Power Design with NanoWatt XLP™ Mark Hofmann – Advanced Engineer, Future Electronics
  - IAR Embedded workbench software online available at www.iar.com/ew8051.

**Index Terms**

Computer Science

Circuits And Systems
Keywords
Bluetooth low energy V4.0  BT Protocol  CC2540.