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Bluetooth ID-Based Phone Information Notification

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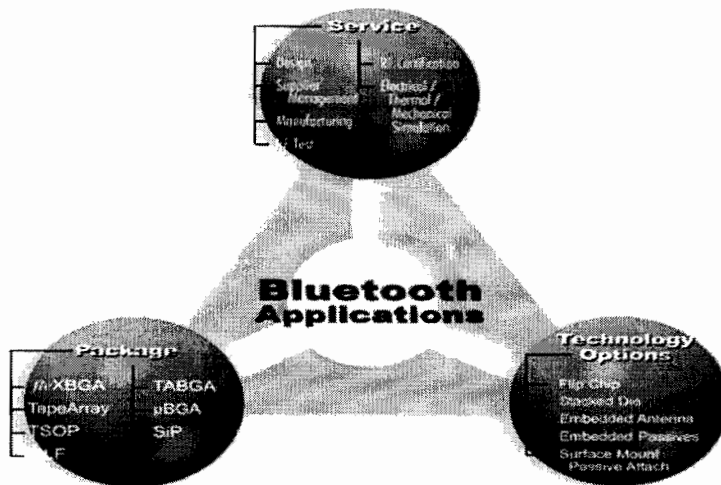
Bluetooth ID-based phone Information Notification

Senior Design Formal Report

by

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April 25, 2006



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ABSTRACT

Bluetooth is set to be the fastest growing technology since the Internet or the cellular phone, with forecasts of 200M devices shipped in 2001 and a total component market of \$1 billion in the same years. This is mainly what brought the attention to use Bluetooth technology and make it the core of this report, which will discuss and provide new feature to the Bluetooth world that the market hasn't been introduced to yet. This report discusses the Bluetooth ID-based phone Information notification design that is introduced as senior design project. The design will provide the availability to Bluetooth headset users to identify the party that is calling, without the necessity of going to look on the display of the phone that is-perhaps-sitting in the other room, rather the Bluetooth ear piece will have the functionality to state the number of the party that is calling digit by digit through a voice IC instead of the unchangeable default beep that is set in the Bluetooth ear pieces we have in the market. The phone communicates to a Bluetooth serial module via Bluetooth signal and the module directly converses with 8051 microcontroller. The task of this microcontroller is to receive the caller ID information that was sent from the phone through the module and transmits the signal to voice IC that announces the number.

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