



THE IMPLEMENTATION FOR THE INTELLIGENT HOME CONTROL SYSTEM BASED ON THE ANDROID AND ZIGBEE

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Abstract- The intelligent home system finished the wireless or remote control for all the indoor electric devices through the intelligent terminals. The description about the integrated network architecture and the interconnecting mechanisms for the reliable measurement of parameters by smart sensors and transmission of data via internet is being presented. The wireless communication technology includes the WiFi, Zigbee and mobile communications. The system presented the design of the hardware part and the software part. The forward are fixed in the variety of appliances based on CC2530 chip and sensors. The connection between different devices can be finished by the standard interfaces RS232 and RS485. The software can be installed in the tablet PC, the personal computer or smart telephones. It can be realized on the open Android platform or Eclipse. The system has been applied in the actual intelligent house. Results are encouraging as the reliability of sensing information transmission is with very little error in the peak of the internet. The home owners are satisfied with the test results. The prototype was tested to generate real-time graphical information rather than a test bed scenario. This will be widely applied in the future of the smart home.

Index terms: Zigbee; WiFi; the intelligent home control system; android system