Abstract

In today’s healthcare domain Field Programmable Gate Array (FPGA) based platforms using Zig-bee based wireless network helps in medical diagnosis. This paper proposes a simplified real time FPGA system for human physiological purposes. Innovations like the output is observed at the transmitter side on LCD as well as at the receiver side on the display screen id done successfully. In the period of developing population, basic issues in medicinal services framework made the nation some way or the another battling against the wasteful medicinal services. The system provides a simplified testing platform for blood pressure and virtual signal measurements. With the progression of electronic industry, the chip out of date quality is a noteworthy concern. The versatile VLSI configuration is a developing pattern to move from bespoke custom chip based framework to the delicate center processor inserted inside FPGA due to the requesting favourable circumstances like low NRE cost, low time to advertise, less equipment, amazing structure adaptability and reinvent capacity, low power utilization and rapid execution. In electronic industry there are such a significant number of zones, similar to remote interchanges, mechanical autonomy and so forth, where versatile structure has been actualized.
In this angle, an endeavour has been made to plan what's more, actualize a propelled human services framework in this article utilizing Zig-bee enabled RFID innovation as per the progressed VLSI plan of the processor. The framework is extremely quick and cost effective obtaining nearly 0% recognizable identification error. Xilinx ISE 14.3 simulator system has been utilized to simulate the processor module and so as to substantiate our structure we have utilized high performance Spartan 6 FPGA board.

References

11. H S Deepthi ;Sumita Shankar Manure ;Cyril Prasanna Raj P ; Saroja S Bhusare ;U L Naik “Design and FPGA implementation of improved lifting scheme based DWT for OFDM systems”, 3rd International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom 2011)Year: 2011 Conference Paper Publisher: IET
12. Udaykumar Naik; Sameer Hudli ; Prakash Biswagar “A statistical channel model for fixed WiMax in urban residential areas” 2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)Year: 2017Conference Paper; Publisher: IEE

Index Terms

Computer Science Information Systems
Keywords

RFID, Zig-Bee, Spartan 6 FPGA, Xilinx ISE 14.3, VLSI, Sensors.