

Abstract

Telemedicine is the transmission of medical information, such as text, image, biosignal, video, sound and medical skill care from one location to another location through telecommunication connection to keep the privacy of data's transmission, it needs a data randomize technique that use cryptography using encryption key

The implementation for cryptography in randomizing data is good (save) if the encrypted data save too, it can't be broke in without the key.

In the final project, the writer implement cryptography medicine image simulated using Aldec Modelsim 6.0 and also synthesized using Xilinx ISE 8.1i. Synthesis Result show *top level entity* required 2% IOBs .

Keyword : *Telemedicine*, Cryptography, RC4, FPGA