**Abstract** 

Telemedicine is the transmission of medical information, such as

text,image,biosignal,video,sound and medical skill dan 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.Sythesis Result show top level entity required 2% IOBs.

Keyword: Telemedicine, Cryptography, RC4, FPGA

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