Cairo University

Faculty of Engineering

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| DDS for frequency hopping system |
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DDS for frequency hopping system

Dr.Abdel Halim Shosha

**Abstract:**

Our project is essentially based on design a DDS for Bluetooth operation and this lead us to know how Bluetooth work and what it need to work probably. The frequency synthesizer for Bluetooth is depend on speed and resolution and this is very necessary in our case as we need very fast device to meet Bluetooth operation and hence we need something to tune between the certain number of frequencies we need so, we need pseudo random sequence generator to generate random sequence for frequency hopping.

Another thing we interested in our design is the limited resources and this implemented by the memory so we introduce compression algorithm to minimize the size of ROM.