



**RESEARCH ARTICLE**

# Comparative Study of Different Application of OFDM in FPGA Implementation

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***Abstract— FPGA provides cost effective solutions to most of the circuits. OFDM is a technique which uses multi-carriers for the modulation in which each sub-carrier can be modulated separately. Due to this multiple carriers share the data among themselves. Due to OFDM channel fading can be minimized & channel equalization becomes simpler. This survey paper highlights different approaches of implementation of OFDM in FPGA along with their application in different fields.***

***Key Terms: - FPGA (Field Programmable Gate Arrays); Orthogonal frequency division multiplexing (OFDM); Field programmable gate array (FPGA); Hardware description language (HDL); bit error rate (BER); signal to noise ratio (SNR); Frequency Division Multiple Access (FDMA)***

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