

## **ABSTRACT**

As a need of high speed data communication many of techniques have been developed. One of the techniques is OFDM (Orthogonal Frequency Division Multiplexing). This technique is base on Frequency Division Multiplexing. With OFDM more information can be transmitted with the same bandwidth by multi carrier. Another advantage of OFDM is resistance to selective fading. In the other hand the main problem of OFDM is substantial amount of PAPR(Peak Average to Power Ratio). The magnitude of this PAPR is caused by sum of subcarriers power at the same phase which results in the maximum power compared to average power become high. One method to reduce the amount of PAPR is switching null subcarriers with the data subcarrier. This method has an advantages over other methods because not changing the transmitted signal which mean Bit Error Rate (BER) of the signal still same. The method also does not require any side information to restore the signal. In this paper a new method based on that concept is proposed. The new concept is switching data subcarriers with null subcarriers. This concept will provide PAPR lower than PAPR original OFDM signal and higher than PAPR with switching null subcarriers data subcarriers method but give lower complexity compared to previous method.