

**STUDY THE EFFECT OF ANTENNA CONFIGURATION ON
SIMPLE ADS-B RECEIVER**

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DECLARATION

It is declared that all the materials in this report are the result of my own work and all materials which are not the result of my own work have been clearly acknowledged in this report.

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ABSTRACT

This thesis presents the study effect of antenna configuration on simple ADS-B receiver. In the recent years, the era of aviation technologies is come into a new technology to provide specialized Air Traffic Management (ATM) system. Nowadays, the air traffic is expected to increase that may be a higher in certain area of the country. Thus, the approvals by the Federal Aviation Administration (FAA) are introducing the Automatic Dependent Surveillance-Broadcast (ADS-B), whereby it is a cooperative surveillance technique for Air Traffic Control (ATC). As to fulfilled requirement of ADS-B system, the antenna configuration is needed to be determined in terms of elements in array. In this paper presents, study the effect of antenna configuration on ADS-B for implementing these systems and the benefits that were achieved.

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