ABSTRACT

UAV(Unmanned Aerial Vehicle) is unmanned flying machine that controlled from far away and can be used for civil or military purpouse, as such to scout natural disaster and docemnted it in video using attachable camera. FPV (first person view) is a remote control (RC) such as if driving yourself. To do so wireless transmision channel to connect UAV and ground station.

In this research microstrip antenna design using technic coaxial feeding. Patch form using biquad that design doubled to get better performance. Design process using software CST 2014 with substract material FR – 4 epoxy with constanta dielectric 4,3 in frequensi 5,8 GHz

Result of this research show radiation pattern from antenna microstrip double biquad which is unidirectional with VSWR 1,192 and return loss- 21,124 in frequency 5,8 GHz. For gain in this measuring 7,7 dBi. Antenna from this research can be applied as receiver antenna in UAV system on ground station

Keyword: microstrip antenna double biquad, receiver, UAV,FPV