

ABSTRACT

Satellite is an information technology that every country in the world needs it . Not only for the distribution of media information, but satellites can be useful to know the state of the weather and of environmental, safety and boundaries to natural disasters. So many benefits from this satellite technology it is almost in every country around the world need it

As a supporter of the satellite tracking antenna technology needed to support sending and receiving information to and from the spacecraft (spacecraft), it is therefore necessary that a monitoring tracking antenna in elevation and azimuth rotator to support these goals by using a microcontroller that controls a sensor CMPS10 which serves to determine the degree of how much the direction that has been done to monitor the satellite tracking antenna.

In this thesis produced an elevation tracking and monitoring earth station antenna azimuth direction with an error of 1.3° to 1.2° azimuth and movement to the movement of elevation. The accuracy of the elevation angle and azimuth directions already meet the tolerances specified ITU-R.

Keywords: Microcontroller , antenna , azimuth, elevation