

ABSTRACT

The development of telecommunication technology continues to increase with the information and communication needs. One of the telecommunication technologies that plays an important role in meeting those needs is satellite technology, whether to meet the needs of research, surveillance and security, confidential communications, as well as entertainment.

In practice, a fairly complex calculations is necessary to determine the device settings appropriate to its requirements and specifications. In this final project, an application based on Android operating system is created to help determining an effective and efficient configurations for the transmitter and receiver located on the Earth. This application, which is named "Satellite Link Calculator", is used to calculate Geostationary Orbit (GEO) satellite link.

The result of this final project is an application which runs in smartphones with Android operating system version 2.3 or higher. The testing process is done by comparing the calculation made by this application with the application software used by PT. Telkom Tbk. Sub Divisi Satelit to determine link calculation with the same parameters.

keywords: *satellite link, Android, Satellite Link Calculator*