

ABSTRACT

VSAT PERFORMANCE ANALYSIS USING SATELLITE SIGNAL MEASUREMENT METHOD WITH SPECTRUM ANALYZER IN REMOTE AREA

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Satellite is an alternative communication technology that can be applied to meet communication needs in geographic areas. One of the existing satellite communication systems is the VSAT (Very Small Aperture Terminal). VSAT uses TDM/TDMA (Time Division Multiple Access) technology with IP (Internet Protocol) as the communication protocol. The territory of Indonesia which consists of separate islands and is also an area with limited internet service connectivity makes it difficult for people to access the internet to communicate. The problem revealed in this study is the quality of VSAT connections in remote areas, especially Aceh, Papua and Kalimantan. satellite signal measurement method with a spectrum analyzer to determine the best value. Writing this research is used to determine the best reference value in determining the best signal value using SQF calculations to get good signal quality. The result of this study is a comparison of the three cities mentioned which shows that VSAT can be the best alternative in remote areas.

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