

ABSTRACT

The need for a multimedia service as a source of information and entertainment on the village of Sei Rangit until today still is not cheap and easy to be able to enjoy it. Is required of a cable TV service as the solution of existing problems so that people can enjoy a multimedia service with cheap and easy. Therefore, we need a coaxial cable television network design that meets the standards.

To obtain a design that meets the standard coaxial network, it takes several targets that need to be fulfilled. These targets include: to know the number of channels that can be provided by the coaxial network, the fulfillment of needs dipelanggan power level that is +3 to +12 dBmV dBmV, obtaining the estimated costs necessary if this scheme will be installed, as well as obtaining a picture of coaxial cable television network that contains all information regarding the length of the cord, a long road, et cetera.

So as a design step in order to obtain maximum results, conducted a literature study comprising data from the study of information about the village of Sei Rangit, study basic theory, as well as other studies that support the optimization of the design is done.

From the overall design, it could be concluded that this design is ready for implementation view of the design targets have been achieved. Diantarnya are: the number of channels that can be provided as many as 56 channels with bandwidth requirement of 423MHz, the power level dipelanggan standard EIA-23 is +3 dBmV to +12 dBmV, to estimate the cost of installation of Rp.204.885.000, as well as Telkom has met the standard for coaxial network performance for CNR is 46dB, 55dB for the CSO, 54dB for CTB, and 45dB for the XMOD. Enough so that the signal at a very good customer.

Keywords: Village Sei Rangit, Coaxial Network, Standard EIA-23, Standard Telkom, coaxial network performance

