

ABSTRACT

Hybrid fiber coaxial (HFC) is a technology that combines optical fiber and coaxial as means of transmission. This technology is a development from cable TV network that can make a better performance on cable TV and Internet. a better performance depends on instruments quality that used. The better instrument quality, the better system performance resulted, so the trouble will be reduced.

There are some parameters that must be consider to achieved a better performance for CATV, they are Carrier to Noise (CNR), Composite Triple Beat(CTB), Composite Second Order Beat (CSO), Cross Modulation(XMod) ,and Hum Modulation(Hmod). While SNR (Signal noise ratio) need to be consider to achieved a better Internet system performance.

Trouble that often occurred is network Trouble. Trouble on TV cable for example, lined picture and dotted picture on customer TV. They caused by CSO, CTB, CNR that not fulfill the requirement standard. and for disconnect Internet caused by SNR that not fulfill the requirement standard.