

## ABSTRACTION

The telecommunication technology in Indonesia, has been growth tremendously. One of the application is telephone. Nowadays telephone has not become expensive equipment. Telephone already being used by almost all the population in Indonesia, especially for the people who live in the city. Now we can see that telephone has become important thing for Indonesian people.

PT TELKOM has become one of the biggest company in telecommunication in Indonesia. Most of TELKOM network was Local Copper Access Network (Jarlok), by the way the local copper access network was not support properly for broadband application.

Before we enter the fiber optic area, we must optimize the function of copper wire for the access network. One of the best solution to accomplish this question is Digital Pair gain Fastlink.

Pair Gain is Digital Technology like (PCM or Pulse Code modulation), this kind technology really have a benefit on the efficient for the channel. It has the answer for the problem that growth in the telecommunication, it can growth as what the demand need, it also can used for application like broadband.