

ABSTRACT

At this time, the needs of the community of communications services will be very large quickly. In addition, required telecommunications device that is powerful, efficient and affordable without reducing the high quality of the telecommunication device.

One of the problems in the telecommunication device is limited carrier frequency that is used to carry data to be emanated to the channel receiver. This is one of the barriers that can reduce the performance of the telecommunications system. However, with a modulator that can produce the desired carrier frequency, the quality of the telecommunication system performance will be improved.

At the end of this project, will be made Modulator GMSK that can generate a minimum carrier frequency of 5 MHz . Modulator GMSK is Minimum Shift Keying modulator using Gaussian Premodulation Filter LPF that act to change the signal into a continuous signal. With the frequency of 5 MHz signal will be expected to carried the carrier frequency will be up to the recipient with the disability may be minimal, so the signal will be up to the recipient well.

Key Words : *Modulator GMSK, Frekuensi Carrier, Filter LPF Gaussian.*