

## ABSTRACT

The power-line is a media of transmission that is used to distribute the electricity power by State Electricity Enterprise (PLN). This media is spread in the whole place in every country. With the considering, that all instance/housing had used the electricity so the electricity-line is a media of transmission which potential if it can be used as a media communications. With use the frequency carrier that big enough if it is compared by the power-line frequency (50/60 Hz) so it can be used as a media of transmission.

By remember that near all housing have AC Power Line outlets, so it will be interesting if this media is used to build up Home Automation System. Home Automation System is regulating house electricity tools, example lighting, music, or temperature, which controlled by central regulator. This regulator can be completed by facility of working scheduler system to on-off house electricity tools automatically. With use AC-power line as transmission media, so the problem about electricity tools location, which far from another and in the number of large can be over without build up the new wiring in the house.