

Remote Transmitter Operational Description

The remote transmitter is a low powered, hand held unit for remote controlling the domestic electrical products and other features. See the function descriptions in attached. The transmitter is powered by a 12-volt battery, and its signal could reach a range of 20 meter circumference. While under operating, the LED indicator light will shine. It is designed to operate on a single fixed frequency at 304 MHz. See the attached block diagram and schematic.

There are 8 buttons triggering the integrated circuit (IC 1) which produces the digital control signals and will modulate the carrier signal. The carrier signal is generated by a R.C. oscillator/ amplifier circuit comprised of a 304 MHz R.C. and a NPN transmitter (TR1). The modulated output of the R.F. amplifier stage is coupled to the PCB antenna on-boarded. The coupling network comprised of C1, C2 and C3.

The transmitter is manually operated by the buttons pushed in one-touch fashion. This feature is incorporated by the IC 1 internally.

All tuning and verification are performed by the manufacture and there are no adjustments can be made by the user. No external ground is required or used with this transmitter.