

EV-REC3 Receiver Operational Description

The EV-REC3 RF Receiver is a low powered, receive data signal from hand held unit for remote controlling relay output or DATA bus transmission features. See the function descriptions in attached. The receiver is powered by a 12 volt power supply. It is designed to operate on a single fixed frequency at 433.92 MHz. See the attached block diagram and schematic.

This receiver decode circuit is using RF(RF1) and integrated circuit which receives the digital control signals and will modulate the carrier signal(ASK). After decoding, data will be transferred for function display (U1). The carrier signal is generated by a crystal (X1) circuit comprised of a 433.92MHz. The modulated output of the RF stage is coupled to the external antenna. The external antenna is attached on PCB around 160mm.

All tuning and verification are performed by the manufacture and there is no adjustment can be made by user.