

### **IPRFH Operational Description**

The iJet is a low powered, which is installed in micro controller integrated with transmitter function for wireless play iPod . See the function descriptions in attached. The transmitter is powered by a 3 volt battery. It is designed to operate on a single fixed frequency at 433.92 MHz. See the attached block diagram and schematic.

There are 7 switches trigger the integrated circuit (**U1**) which produces the digital control signals and will modulate the carrier signal (**ASK**). The carrier signal is generated by a **I C oscillator/amplifier circuit comprised of a 433.92 MHz SAW(X1)** . The modulated output of the RF stage is coupled to the loop antenna. The antenna is on-board track, around **67.5mm**.

The iJet is operated by the triggered momentarily within **0.2 second** and will automatically deactivate send signal to receiver. This feature is incorporated by the **U1** internally.

All tuning and verification are performed by the manufacturer and there are no adjustments can be made by users.