

## **Operational Description**

1. The LED driver circuit provide AC/DC conversion and 2 DCoutput. One is for the LED light source and other for the wireless module.
2. The wireless module is based on a single chip RF SoC JN5142. It is based on IEEE802.15.4 operating at 2.4GHz, and the frequency range is 2405MHz~2480MHz. Maximum field strength is 85.25dBuV/m at 3m distance, is GFSK modulation.
3. JN5142 oprates with a 32MHz crystal. It has built in RF output which connects to Antenna via the matching circuits, and the Antenna Gain is 0 dBi.