

1. Circuit Description

This device mainly consist with two parts which are RF and baseband.

The RF part is using for wifi 802.11 b/g/n system. The antenna using for the RF is a monopole 0dBi antenna.

The baseband including a MCU which control the motor movement, Cmos sensor for video, IR led, heat sensor and the power management.

There are total two type of the ground which is analogue ground and the digital the ground. The analogue ground is only for the Mic. All other components are using the digital grounding.

There are two type of the voltage supply to the MCU, which the 5V is supplied from the adaptor to the device and the 5V will be regulated by the LDO and given two voltage which are 3.3V and 2V. These two voltages will supply to the MCU.