

Circuit description of Irobot

The VA93 is the main processor of Irobot. It mainly controlled the Wifi module RT3070, image sensor IC OV7675, LED and motor through GPIO and different data bus. Irobot can be controlled by Iphone or Ipad by connecting through Wifi.

The RF module RT3070 is used to control the Wifi 802.11b/g/n signal which will transmit and receive data in the 2.4GHz channel. The VA93 uses USB bus to control the WiFi module. VA93 is clock by a 27MHz clock and is power up by 3.3V and 2V power rail provided by 2 DC/DC convertor.

Irobot has a internal 3.7V 400mAh battery and can be charged up by a 5V power supply.