

Circuit Description

The circuit mainly consists of a 2.4GHz tranceiver unit and a Wi-Fi module. When the tranceiver unit receives data from other RFID tag, and the transmitting frequency of the RFID tranceiver is 2451.15MHz, it transfers the data to the Wi-Fi module through UART interface. The Wi-Fi module then transmits the data to computer through Wi-Fi network, and the transmitting frequency of the Wi-Fi wireless network is 2412~2462MHz.

For LAN cable connection, the Wi-Fi module transmits the collected data to the ethernet tranceiver through MII (Media Independent Interface). The data can then be received through RJ45 connector from the tranceiver.

The circuit is powered by 5VDC, with two LED indicators. Two external 2.4GHz antennas are connected at the opposite side of power supply position.