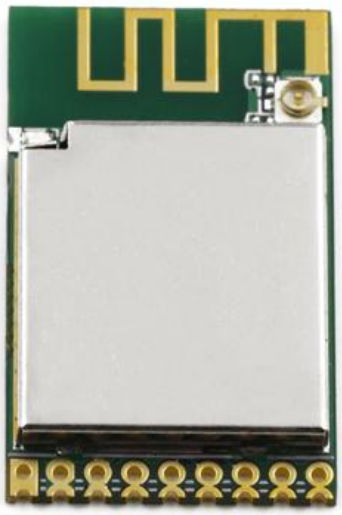
LCX801 UART WIFI Module

(2.4GHz/150Mbps 802.11 b/g/n)



General Information

LCX801 consists of MT7681 chip,power amplifier, low noise amplifier through 1T1R technology, and operates in 2.4 GHz band, adopts IEEE802.00b/g/n. It is a module with more effective power management, reliable WIFI connect is assure while as less as technology is used. LCX801 is a high performance, low cost, low power consumption, simple wifi module which assure speed of transmission and information reliability. Compliant TCP/IP, UDP protocol.

Applications
Home Automation
Controller
RC Switch
Wireless Sensor
LED Control

Features:
2.4GHz, support 802.11b/g/n Client and AP
Control function of internal MCU
Smart configuration of WIFI connection
UART and GPIO interface
WEP, WPA2
RF On/Off, power management in sleep mode
PCB antenna or External antenna is supported

Diagram of External Antenna

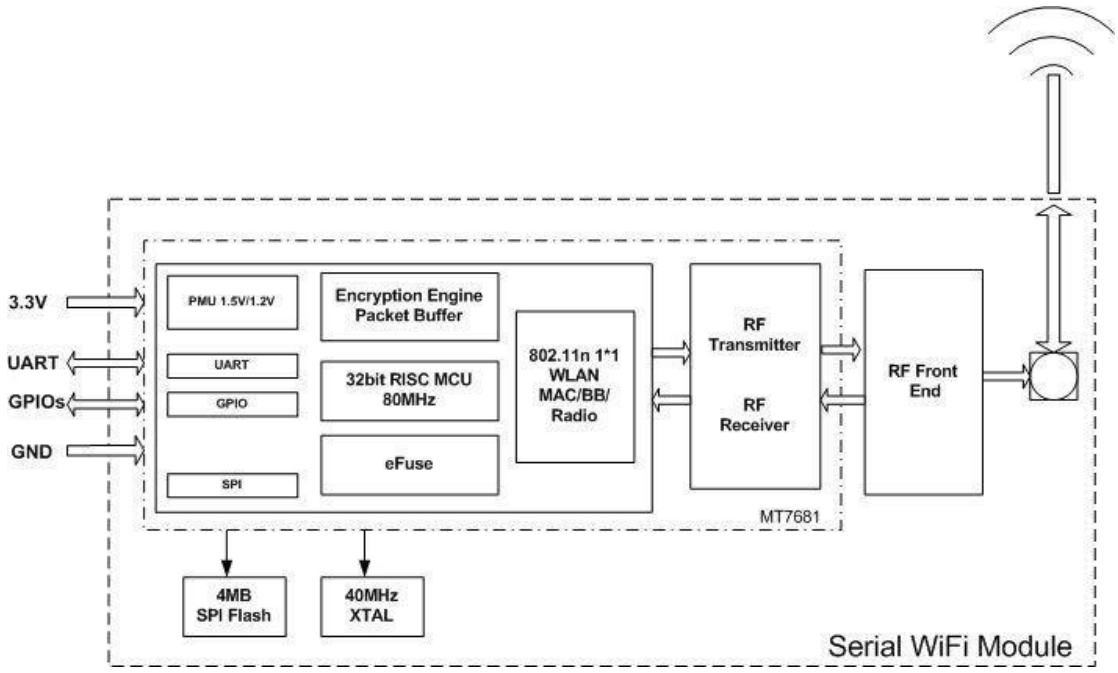
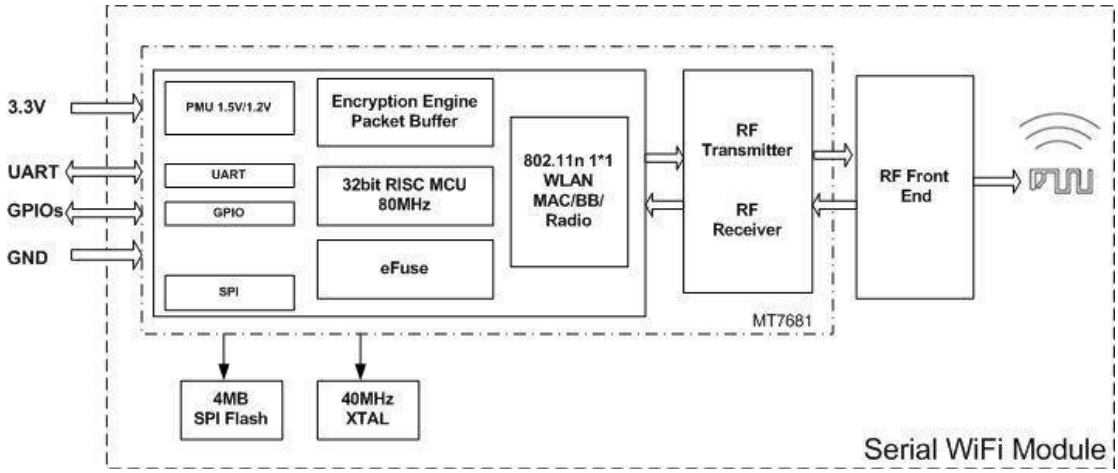


Diagram of PCB Antenna

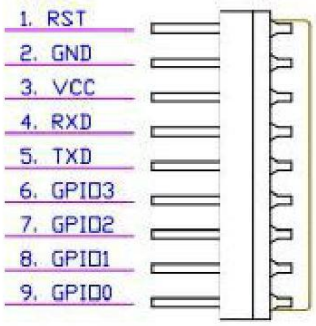


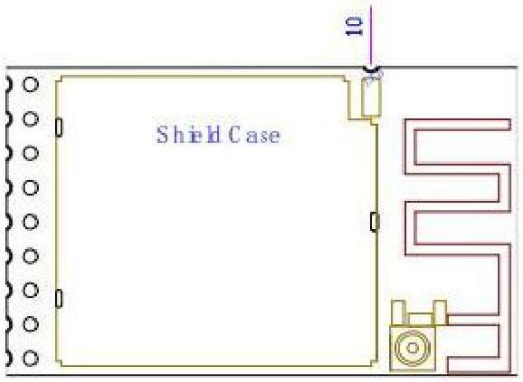
Features	
WiFi Protocol	IEEE 802.11b/g/n
Interface	1 UART: 115200bps
I/O	1 GPIO (configure work mode)
LED	LED flash, WiFi not connected; LED stays on, WiFi connected.

Add-on Flash	8Mbit
WiFi work mode	Client / Soft AP
Encrypted Form	WPA2-PSK, WEP
Frequency	ISM band, 2412~2483.5MHz.
Transmit Power	802.11b (CCK) 11Mbps: 19+/-1dBm
	802.11g (OFDM) 54Mbps: 16+/-1dBm
	802.11n(HT20@MCS7), 15+/-1dBm 802.11n(HT40@MCS15), 15+/-1dBm
Receive Sensitivity	802.11b: -86+/-1dBm; 802.11g: -72+/-1dBm, 802.11n (HT20), -68+/-1dBm; 802.11n (HT40), -65+/-1dBm

Supply Power VCC	3.3 ±0.05 V DC	
Supply Current	1.1mA	Sleep mode
	6mA	RX Listening mode
	15mA	RX Power down mode, DTIM=1
	70mA	RX 工作、HT40、MCS7
	220mA	802.11g (OFDM) 54Mbps
	210mA	802.11n (HT20@MCS7)
	210mA	802.11n (HT40@MCS7)
	245mA	802.11b (CCK) 11Mbps
Operate Temperature	-10°C to +60°C	
Storage temperature	-20°C to +80°C	
Operate Humidity	20% to 80%	
Dimensions	30*18mm	
Weight	2.4g	

Pin Assignment





Pin Description

NO.	Name	Function	Description
1	RST	Reset	low level reset input
2	GND	Ground	GND
3	VCC	Power Ground	3.3V
4	RXD	Data input	UART_RXD
5	TXD	Data output	UART_TXD
6	GPIO3	GPIO3	GPIO3
7	GPIO2	GPIO2	GPIO2
8	GPIO1	GPIO1	GPIO1
9	GPIO0	GPIO0	GPIO0
10	NC	NC	NOT CONNECT

Note：1、GPIO 0-3 must pull up or pull down, DO NOT float。

2、LCX801 support UART/GPIO interface only

3、GPIO1 for AT command mode switch，low level is AT command mode，high is data mode