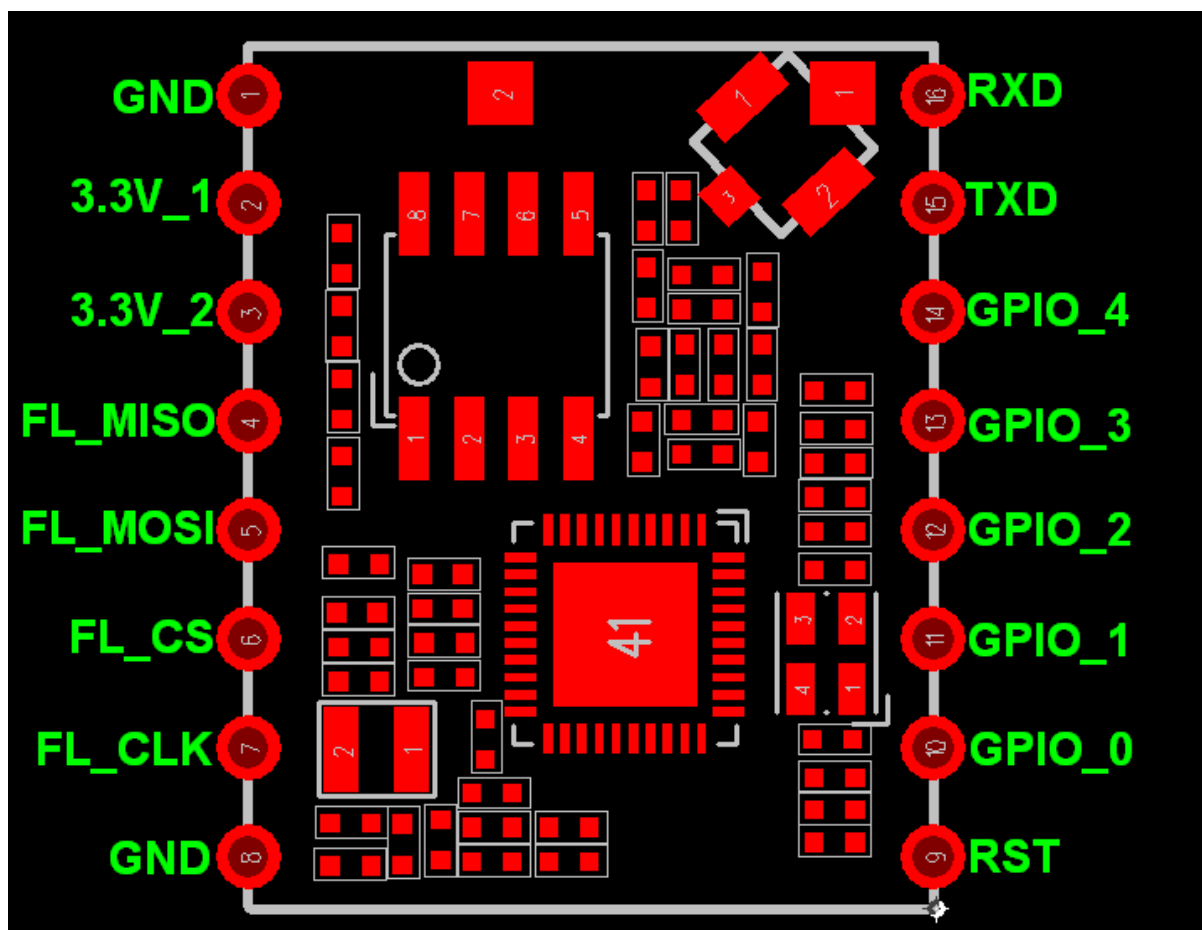


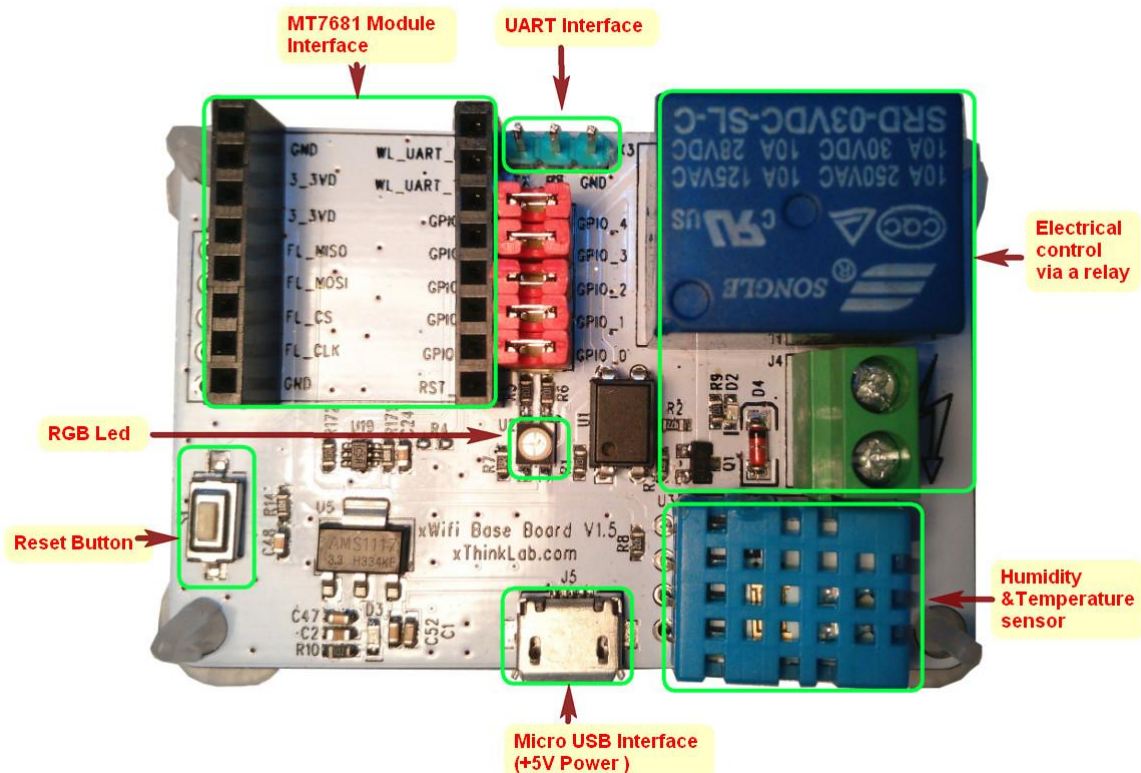
Module & Baseboard Simple Specification V0.1

1. The Specification of MT7681 Module



Protocol and interface		
WiFi Protocol	IEEE 802.11b/g/n	
Data interface	1 UART, Max data rate:115200bps	
I/O ports	4 GPIO. Max interrupt request time 1ms	
LED display	Link/Activity display	
Memory size		
External SPI Flash	4Mbit	
WiFi Features		
WiFi mode	Client / Soft AP mode	
Encryption	WPA2-PSK, WEP (more will be available later)	
WiFi RF Characteristics (Typical)		
Frequency	ISM band, 2412~2483.5MHz.	
Tx 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	
Rx sensitivity	802.11b: -86+/-1dBm; 802.11g: -72+/-1dBm, 802.11n (HT20), -68+/-1dBm; 802.11n (HT40), -65+/-1dBm	
Operation Voltage and Current (Typical)		
Power supply	3.3+/-0.05 VDC	
Current	1.1mA	Sleep mode
	6mA	RX listen mode
	15mA	RX power saving, DTIM=1
	70mA	RX Active、HT40、MCS7
	220mA	802.11g (OFDM) 54Mbps
	210mA	802.11n (HT20@MCS7)
	210mA	802.11n (HT40@MCS7)
	245mA	802.11b (CCK) 11Mbps
Operation Condition		
Operating temperature	-10℃ to +60℃	
Storage temperature	-20℃ to +80℃	
Operating humidity	20% to 80%	
Physical		
Size	30*18mm	
Weight	2.4g	

2.The specification of Base board



3.The MT7681 module and Base board

Step a: Plug micro USB ,power on MT7681 and the green led indicator will go on .

Note 1: Aiming at the MT7681 chip oneself request of booting,the RX pin of UART should be floated(not connect) or connected as low level at the boot beginning .You can operate RX pin freely after booting done.

Step b:The MT7681 get into Recovery mode first ,and last around 4 seconds,then step into AP or STA mode .

Step c:Open xWiFi app ,then Connect to router if MT7681 is in STA mode .or Connect to MT7681 Directly (Default SSID :MT7681_SoftAP) if MT7681 is in AP mode .

