Oolite V5.0

WIFI Develop Board Spec V1

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General Description

Oolite V5.0 is a highly integrated wireless routing module. It is not only a wireless module, it is a complete route, only energized, it can work in a wireless AP module, if coupled with 5 network transformer and RJ45 network ports,she is a wireless router.

Oolite V5.0 power is very low, working alone, only 0.6W, very suitable for battery products, it has a 300M wireless transmission rate, up to 11GPIOs,and 5 Ethernet port can be defined as input and output.

It's design for wifi hard disk, WiFi router, remote monitoring, remote video, Industrial control DIY and so on.

The module based on the single chip QCA9531which integrates an 802.11n 2T2R MAC/BB/radio with internal PA and LNA. It supports 802.11n operations up to 150Mbps for 20 TMHz and 300 Mbps for 40 MHz channel respectively, and IEEE 802.11b/g data rates.

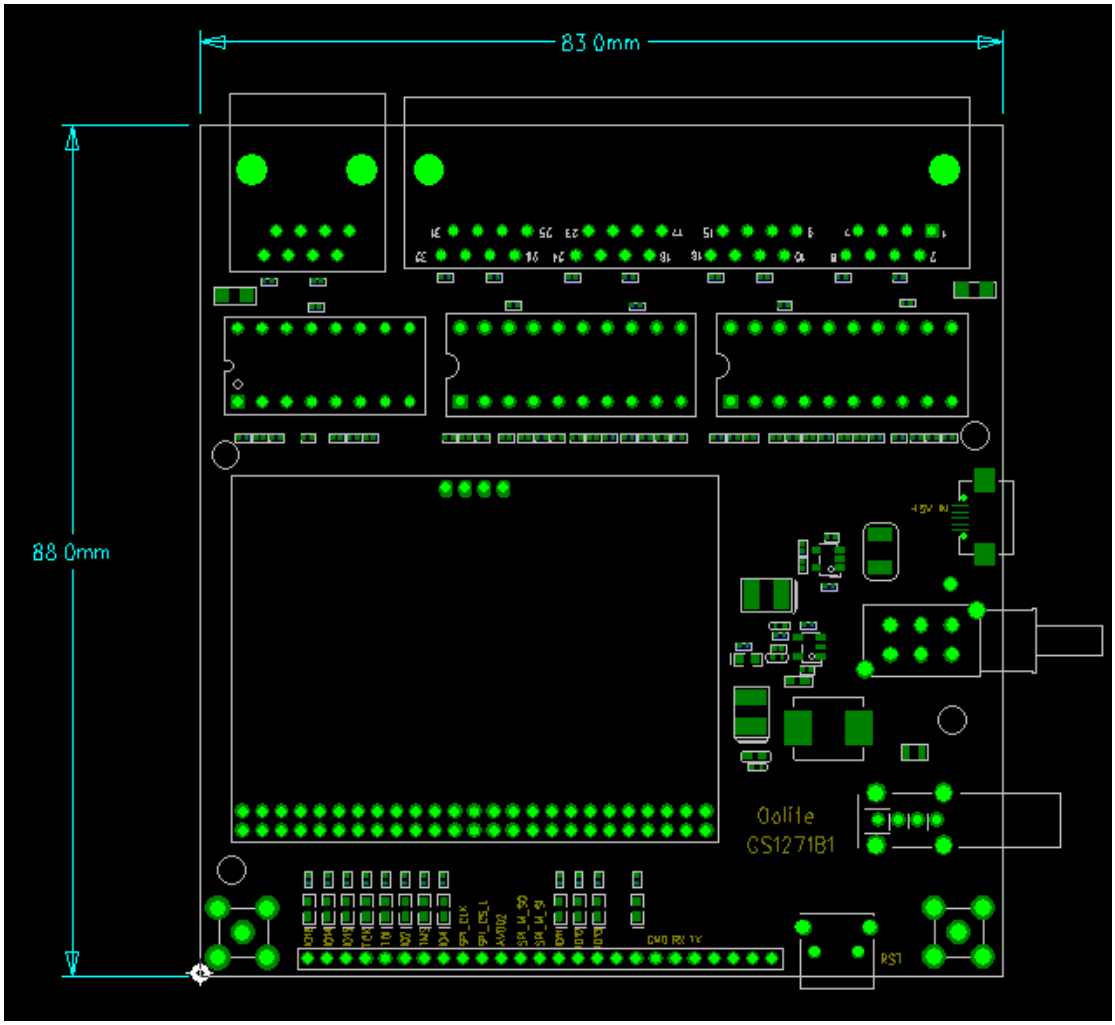
Our module base is all for it.

Please pay attention to the source code version. Thanks.
Most source you can get from:
Http://openwrt.org
https://dev.openwrt.org/
And the module can only use our own.

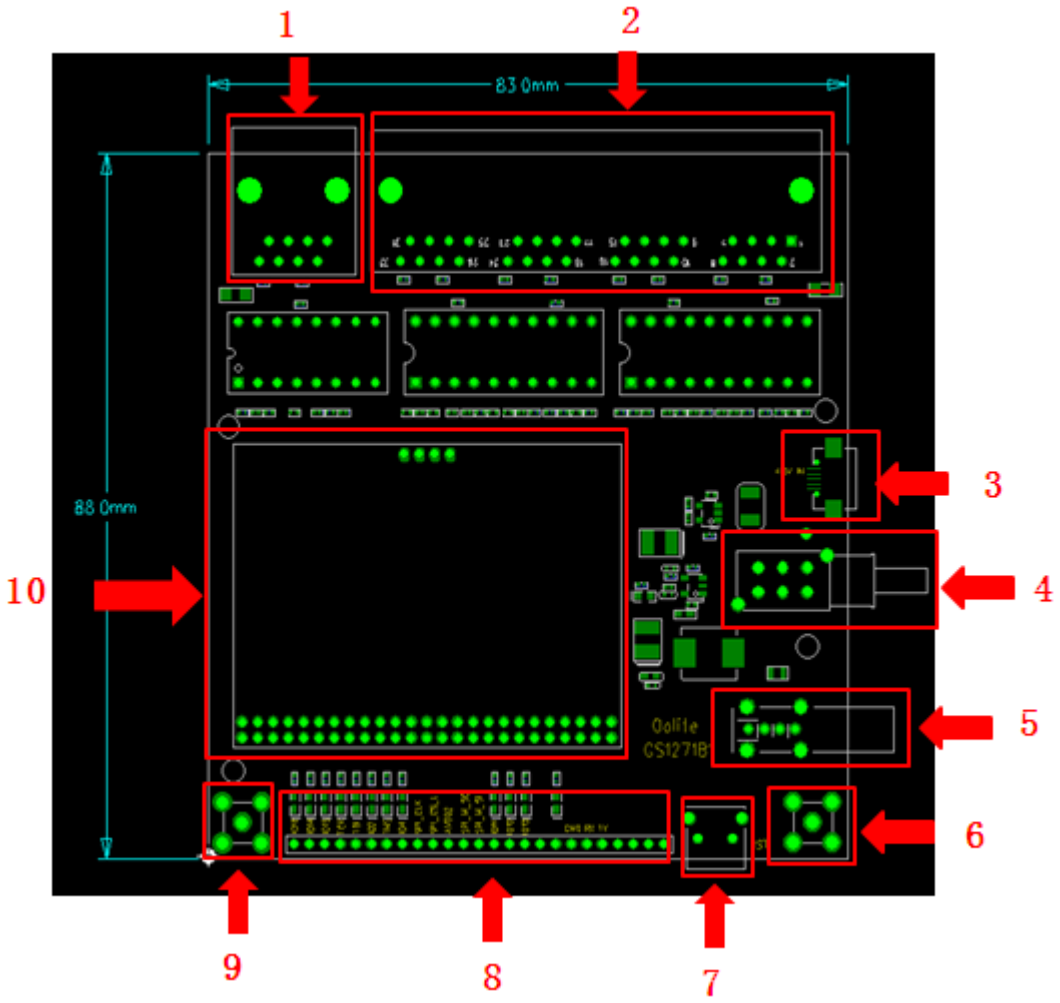
Characteristics

Wireless speed: 300Mbps
General GPIO: 11 (not including TX, RX)
Power supply voltage: 5V.
Port: 5×100Mbps network interface
5V input
SPI interface pin out.
Product size: 83* 88MM.

Picture of the module base



Functions Description

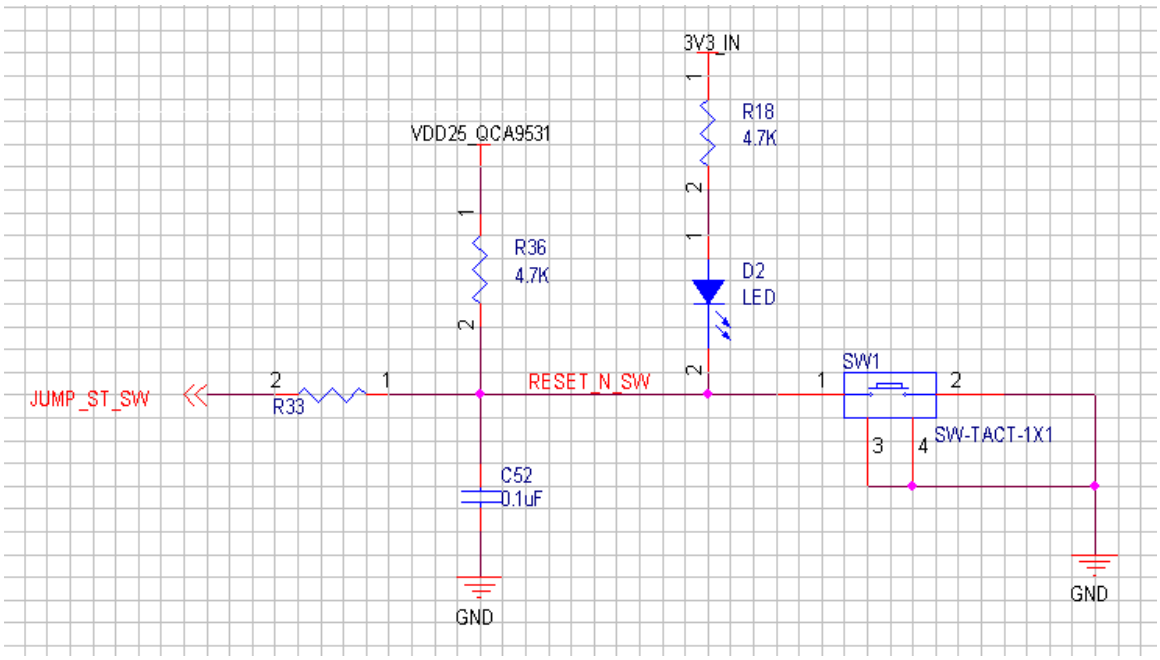


Spec:

NO	Name	spec
1	Wan/Lan port	1Network Port
2	Lan port	4Network Port
3	DC inject	Power volt: +5V Micro-USB Input
4	Power Push-switch	Switching mode power supply
5	USB 2.0	USB 2.0,Can plug in U-disk,Wifi adapter, USB camera and so on.
6、9	antenna	The antenna seat
7	Reset	Reset
8	LEDs and Headers	All GPIOs
10	Oolite V5.0 module	Our module

Details

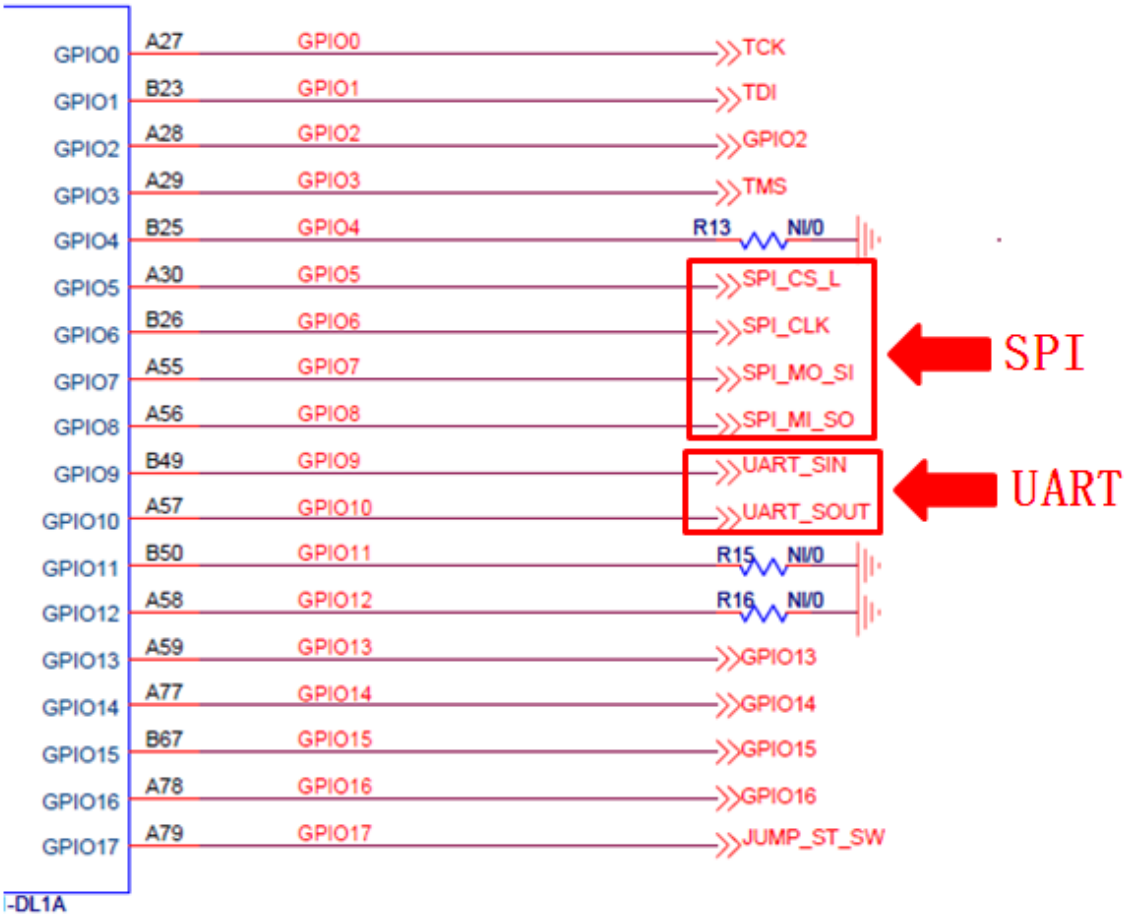
NO7 Reset



NO8 LEDs and Headers

GPIO16、GPIO 14、GPIO 12、GPIO 11、GPIO 4、GPIO 2、RESET_N_SW	pulled up
GPIO15、GPIO 13、TCK、TDI、TMS	pulled down

GPIOs



Setting the board

As usually openwrt router.

Module operating environment

Working temperature: 0 ℃ to 60 ℃;
Storage temperature: -40 ℃ to 85 ℃;
Humidity: 10% to 90%RH no condensation;
Storage humidity: 5% to 90%RH no condensation.