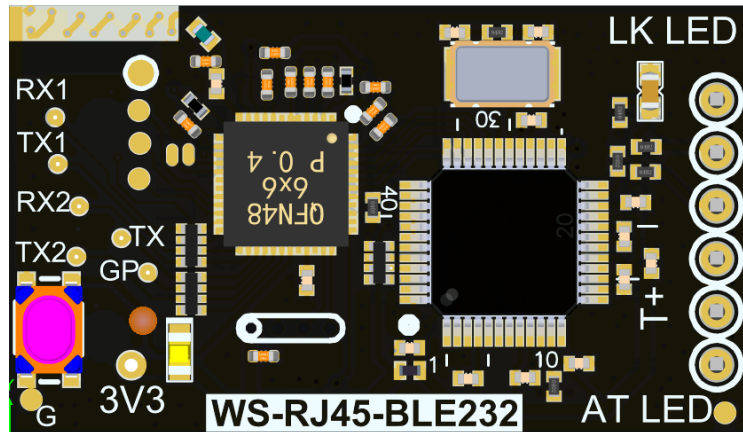


WS-RJ45-BLE232-AG



- 100M high-speed network, 10/100M self-adjusting Ethernet interface
- Support HTTP communication protocol
- UART serial transmission rate can be set from 2400 bps to 115200 bps
- Work mode: TCP Client, TCP Server, UDP, MODBUS TCP, MODBUS-RTU, and other modes
- Support virtual serial port working mode when transparent transmission protocol
- Can cross the gateway, cross the switch, and the router
- It can work on the local area network or the Internet (external network)

Product Features

- 10/100M TCP/IP
- Wired to Wireless Network
- Web Configuration
- Small Size 2x3.5cm
- Bi-directional Data Transmission
- ARM32 Core
- Low Voltage Operation 3.3V
- Connectable to NB-IoT
- Connectable to 4G
- Connectable to WiFi Module for Control

Specification

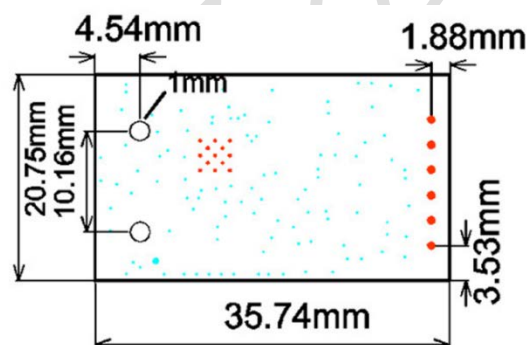
- Supply voltage : 3.3V
- TCP/IP protocols : TCP、UDP
- Network protocols : Client、Server
- Interface : TTL UART * 3
- Operating temperature : -10°C~+85°C
- Size : 36*20.6*9 mm

DC Characteristics

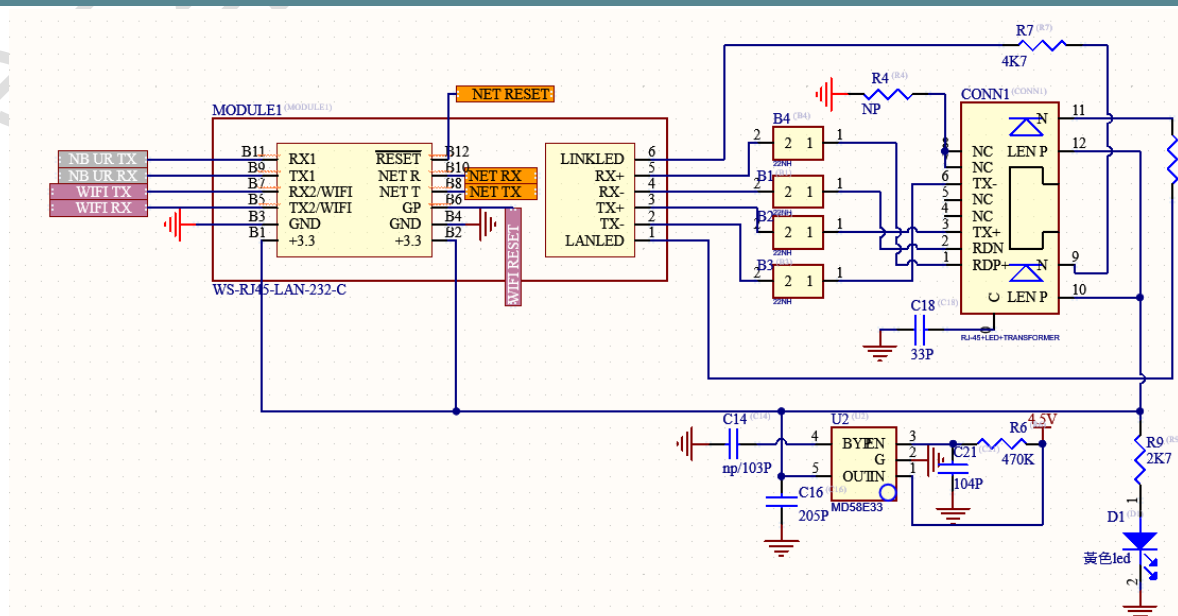
Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
VIH	High level input voltage		2.0		5.5	V
VIL	Low level input voltage		0.3		0.8	V
VOL	Low level output voltage	IOL = 8mA,			0.4	V
VOH	High level output voltage	IOL = 8mA,	2.4			V

Dimensions

(mm)



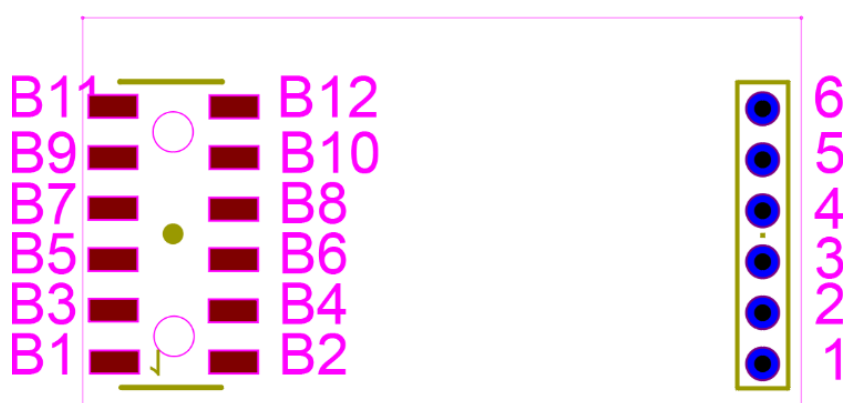
Demo Circuit



Pin Assignment

Pin	Name	I/O	Description
1	LAN LED	O	Network activity status indicator light
2	TX-	AO	Differential signal transmission
3	TX +	AO	Differential signal transmission
4	RX -	AI	Differential signal reception
5	RX +	AI	Differential signal reception
6	LINK LED	O	Network connection indicator light
B1	VDD	P	Power Supply 3.3V
B2	VDD	P	Power Supply 3.3V
B3	GND	G	Ground
B4	GND	G	Ground
B5	TX2	O	UART TX2 (Customizable)
B6	GP	I/O	TBD (Customizable)
B7	RX2	I	UART RX2 (Customizable)
B8	NET TX	O	Module UART TX
B9	TX1	O	UART TX1 (Customizable)
B10	NET RX	I	Module UART RX
B11	RX1	I	UART RX1 (Customizable)
B12	REST	I	Pull low reset

Top View



AT Command

#	AT Command	Return	Function Explanation
1	AT+RJ45_IP:0,192.168.2.3		查詢或主動上報 IP，因定 IP 或 DHCP 獲取成功後主動發出本地 IP //參數 1 0 固定 IP 1 DHCP 獲取成功 2 DHCP 未獲取到 IP 5 網線沒插入或不良 ?查詢 //參數 2 本地 IP 方向：模組通過 UART 發送
		AT+RJ45_IP:0,192.168.2.3	查詢時回復
2	AT+NETSTA:?		查詢與 SERVER 連接或 SERVER 時被連接的狀態
		AT+NETSTA:0	//參數 0 未連接 1 連接成功
3	AT+SETNET:0,192.168.2.10,8082		向設備設置網路參數 參數 1 0 設備為 client 1 為 server 參數 2 目標 IP 參數 3 參數 1 為 0 時為目標 Port 參數 1 為 1 時為設備 server 偵聽埠
		+SETNET:0,192.168.2.10,8082	返回
4	AT+LinkWLAN=0		模組主動發送連接 SERVER 狀態 (0.03 版本才有) 參數 0 斷開連接 1 連接成功
5	AT+FlashFactoryReset		FLASH 保存的參數設置恢復出廠
6	AT+RJ45Reset		模組復位
		AT+ACK:OK	
7	AT+MAINUPDATE		模組向主機板發送更新請示 (0.03 版本才有)

Web page login information

User name : admin

Password : 12345678