

TI CC3200 Wifi Module

■ ■ ■ USR-C322

Serial wifi data transmission

USR-C322 is a uart to wifi module, used for data transparent transmission. Hardware of USR-C322 wifi module integrates MAC, baseband chip and RF transceiver unit.

USR-C322 wifi module is based on TI CC3200 chip, which has industrial ARM Cortex-M4 core and ultra-low power operation mechanism. It supports WiFi protocol and TCP/IP protocol.

User can achieve the function of UART devices connecting to Internet with simple configuration.

■ ■ ■ TTL to Wifi

- Support Wi-Fi@2.4 GHz 802.11 b/g/n wireless standard
- Support Simplelink/usrlink networking configuration
- Support WEP, WPA/WPA2 security mode
- Support AP/STA working mode
- Based on ARM Cortex-M4 kernel, running frequency of 80 MHZ
- Support two uart and three socket communication
- The fully integrated serial to wifi TCP/UDP transmission function, the rate of serial port up to 3M bps
- Support custom webpage function
- Support AT+ simple instruction set configuration
- Support HTTPD Client function
- Support websocket function
- Support SSL Client function
- Support TCP/UDP Client registration packet mechanism
- Ultra low power mode, support deep dormancy
- Support internal/external antenna option
- Supports 485 transmission control
- Support PC1 16 bytes encryption when work in transparent transmission mode
- Single 3.3 V power supply
- Support search in local area network (LAN) and wireless parameters setting function
- Minisize: 18.22mm*26.65mm*2.8mm SMT
- Support class RFC2217 automatic baud rate adaptation function
- FCC/CE/RoHS certified

Specifications

System Information

Processor	TI CC3200 (Cortex-M4 core)
Main Frequency	80MHz

Serial

Port Number	2
Interface Standard	TTL: 3.3V
Data Bit	5, 6, 7, 8
Stop Bit	1, 2
Check Bit	None, Even, Odd, Space, Mark
Baud Rate	300 bps ~ 3M bps
Flow Control	RTS / CTS
Buffer	Receive 1K bytes

Software

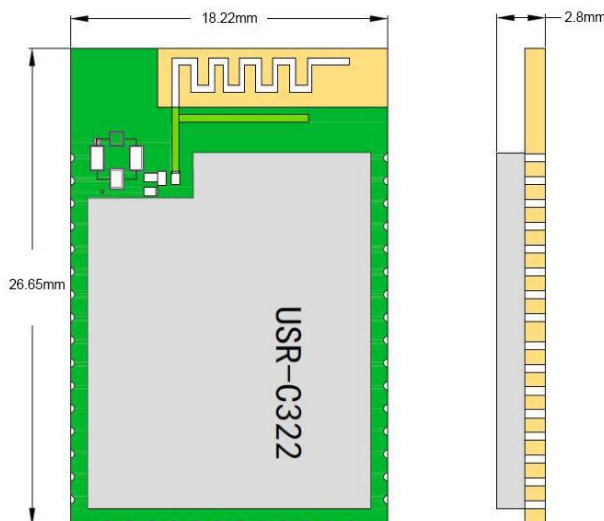
USR-VCOM	Windows 2000 or higher (32bit/64bit)
Configuration	Built-in webpage Serial AT command Network AT command
Networking	UsrLink: "USR" defined networking mode SimpleLink: onekey networking provided by TI

Basic Parameter

Size	18.22 x 26.65 x 2.8mm
Operating Temp.	-40 ~ 85°C
Storage Temp.	-40 ~ 125°C, 5 ~ 95% RH
Input Voltage	DC 3.0 ~ 3.6 V
Working Current	AP: 70mA; STA: 18mA; Peak: 247mA

Wi-Fi

Standard	802.11 b/g/n
Network Mode	AP / Station
Transmission Rate	802.11b: 11 Mbps 802.11g: 54 Mbps 802.11n: 54 Mbps
Transmit Power	17.0 dBm @ 1 DSSS 17.25 dBm @ 11 CCK 13.5 dBm @ 54 OFDM
Receive Sensitivity	-94.7 dBm @ 1 DSSS -87.0 dBm @ 11 DSSS -73.0 dBm @ 54 OFDM
Frequency Range	2.412 GHz ~ 2.484 GHz
Transmission Range	Max 200m (open horizon, 3dbi antenna)
Security Mechanism	Security: WEP-A / WPA-PSK / WPA2-PSK Encryption: WEP64 / WEP128 / TKIP / AES
Antenna Interface	External: I-PEX connector Internal: on-board antenna



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