

# Tiny Size Wifi Module

## ■ ■ ■ USR-C210

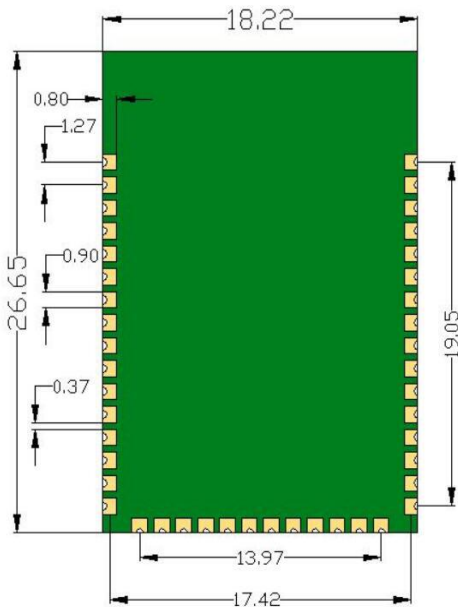
### Serial wifi data transmission

USR-C210 is a TTL to wifi module, used for data transparent transmission. Hardware of USR-C210 wifi module integrates MAC, baseband chip and RF transceiver unit.

The module supports WiFi protocol and TCP/IP protocol. User can realize uart device networking via simple configuration.

## ■ ■ ■ TTL to Wifi

- The fully integrated serial to wifi TCP/UDP transmission function, can choose multiple serial speed
- Support WPA/WPA2 security mode.
- Support work as AP, STA, AP+STA mode
- Support Wi-Fi@2.4 GHz 802.11b/g/n wireless standard
- LAN search and wireless parameter setting function
- Support TCP/UDP Client registration packet mechanism
  
- Support Simplelink/uslink rapid networking configuration
  
- Httpd Client function
- Support simple AT+ command set configuration
- Support class RFC2217 automatic baud rate adaptive function
- On-board PCB antenna and external antenna optional
  
- 3.3V power supply
- Ultra-low power
- Small size: 18.22 x 26.65 x 2.8 mm



## Specifications

### Hardware

Data Interface	UART
Operating Temp.	-20~ 85°C
Storage Temp.	-55~ 125°C
Size	18.22 x 26.65 x 2.8 mm
External Interface	SMT
Operating Voltage	DC 3.0~3.6V
Operating Current	AP: 74mA (average), 285mA (peak) STA: 32mA (average), 196mA (peak)

### Software

Network Type	AP, STA, AP+STA
Security Mechanism	WPA-PSK/WPA2-PSK
Encryption Type	TKIP, AES, TKIP/AES
Network Protocol	IPv4, TCP/UDP
User Configuration	AT+command Webpage setting

### Wireless

Wireless Standard	802.11 b/g/n
Transmit Power	802.11b: +18 +/-1dBm (@11Mbps)
	802.11g: +17 +/-1dBm (@54Mbps)
	802.11n: +15 +/-1dBm (@HT20, MCS7)
Receive Sensitivity	802.11b: -85 dBm (@11Mbps, CCK)
	802.11g: -70 dBm (@54Mbps, OFDM)
	802.11n: -68 dBm (@HT20, MCS7)
Antenna	External: I-PEX connector Internal: on-board antenna

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