

WIFI MODULE--LOW POWER

■ ■ ■ USR-WIFI232-Sb

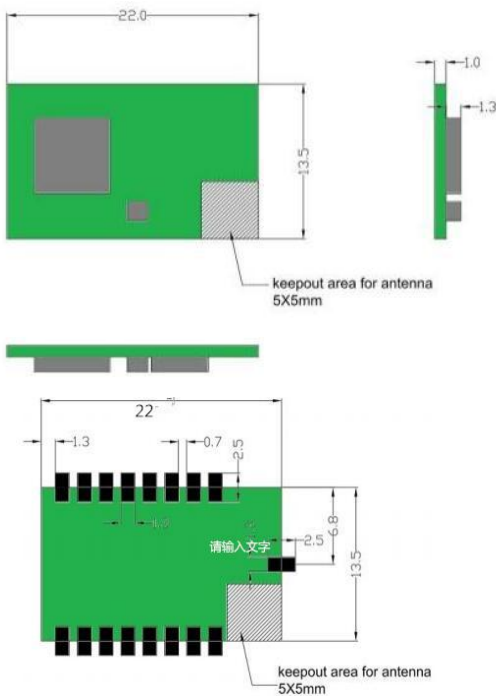
Serial device easy to Network

USR-WIFI232-Sb is a SMT wifi module that can support functions of smart link and WPS. It has unparalleled advantages of low cost and tiny size.

USR-WIFI232-Sb wifi module is now widely used in smart home, industry control and individual health.

■ ■ ■ Serial UART to WIFI module

- Support IEEE802.11b/g/n Wireless Standards
- Support WIFI2.4 GHz, support WEP, WPA/WPA2 security mode.
- Based on Self-developed High Performance MCU
- Ultra-Low-Power for Battery Applications with Excellent Power Save Scheme
- Support UART Data Communication Interface
- Support Work As STA/AP/AP+STA Mode
- Support SmartLink Function (APP program provide)
- Support Wireless Upgrade Function
- Support WPS Function
- Support Multi-TCP Link (5 Channel) Application
- Support external Antenna
- Smallest Size :22mm x 13.5mm x 2.3mm



unit of measurement(mm)

| Specifications | |
|------------------------|---|
| Wireless Parameters | |
| Certification | FCC/CE |
| Wireless Standard | 802.11 b/g/n |
| Frequency Range | 2.412GHz-2.484GHz |
| Transmit Power | 802.11b: +16 +/-2dBm (@11Mbps) |
| | 802.11g: +14 +/-2dBm (@54Mbps) |
| | 802.11n: +13 +/-2dBm (@HT20, MCS7) |
| Receive Sensitivity | 802.11b: -93 dBm (@11Mbps ,CCK) |
| | 802.11g: -85dBm (@54Mbps, OFDM) |
| | 802.11n: -82dBm (@HT20, MCS7) |
| Antenna | External: I-PEX connector |
| Hardware Parameters | |
| Data Interface | UART/PWM/GPIO |
| Operating Voltage | 3.0~3.6V |
| Operating Current | Continuous TX: ~200mA |
| | Normal Mode: Average: ~12mA,Peak: 200mA |
| | Standby: <200uA |
| Operating Temp. | -40℃ ~ 85℃ industrial |
| Size | 23.1mm x 32.8mm x 2.7mm |
| Software Parameters | |
| Wireless Network Type: | STA/AP/STA+AP |
| Security Mechanism | WEP/WPA-PSK/WPA2-PSK |
| Encryption Type | WEP64/WEP128/TKIP/AES |
| Update Firmware | Local Wireless |
| Customization | Support custom webpage,provide SDK for secondary development (VIP client) |
| Network Protocol | IPv4, TCP/UDP/HTTP |
| User Configuration | AT+command, Webpage Android/iOS APP Smart Link configuring APP |

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