

# Serial TTL UART to Wi-Fi Module

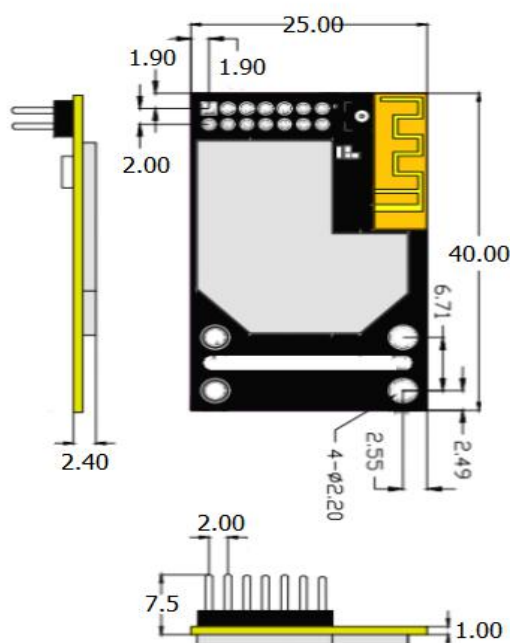
## ■ ■ ■ USR-WIFI232-B2

### Serial Wi-Fi module

This is an embedded 802.11 b/g/n Wi-Fi module Which can connect traditional serial device and MCU controlled device with Wi-Fi network to realize control and management. It can realize bidirectional transparent data transmission between serial and Wi-Fi network with simple setup.

## ■ ■ ■ TTL UART to Wi-Fi

- Support 802.11b/g/n wireless standard
- Support TCP/IP/UDP network protocol
- Support UART/GPIO/Ethernet data interface
- Support work as STA/AP/AP+STA mode
- Support router and bridge mode
- Support Built-in Web page
- Support Httpd Client and WEB IO function
- Support DHCP and DNS
- Support transparent transmission mode
- Provide AT+ instruction set for configuration
- Support heartbeat signal and Wi-Fi connection indication
- Support UART auto-frame function
- Support HTTPD client
- Support Similar RFC2217
- Support web page to serial
- Support firmware upgrade via web page



| Specifications        |                                |
|-----------------------|--------------------------------|
| Wireless Parameters   |                                |
| Wireless Standard     | 802.11 b/g/n                   |
| Frequency Range       | 2.400GHz - 2.4835GHz           |
| Transmit Power        | 802.11b: +17dBm (Max.)         |
|                       | 802.11g: +16dBm (Max.)         |
|                       | 802.11n: +15dBm (Max.)         |
|                       | Configurable                   |
| Receive Sensitivity   | 802.11b: -89dBm                |
|                       | 802.11g: -76dBm                |
|                       | 802.11n: -74dBm                |
| Software Parameter    |                                |
| Wireless Network Type | AP / Station / AP+Station      |
| Security Mechanism    | WEP/WPA-PSK/WPA2-PSK           |
| Encryption Type       | WEP64/WEP128/TKIP/AES          |
| Work Mode             | Transparent transmission       |
|                       | Serial command mode            |
| Setting Command       | AT+ instruction set            |
| Network Protocol      | TCP/UDP/ARP/ICMP/DHCP/DNS/HTTP |
| Max. TCP Connection   | 32                             |
| User Configuration    | Web Server+AT command          |
| Hardware Parameter    |                                |
| Data Interface        | UART: 300bps-460800bps         |
|                       | Ethernet: 10Mbps/100Mbps       |
|                       | GPIOs                          |
| Working Voltage       | 3.3V (+/-5%)                   |
| Working Current       | 170mA -350mA                   |
| Working Temp          | -40°C - 85°C                   |
| Storage Temp          | -40°C - 125°C                  |
| Size                  | 25mm x 40mm x 8mm              |
| Accessories           |                                |
| Antenna               | External antenna               |
| More                  |                                |
| Certificate           | FCC/CE                         |
| Warranty              | 2 years                        |

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