

**Radicom Research, Inc.**

671 E. Brokaw Road | San Jose, CA 95112

Tel: 408-383-9006 | Fax: 408-383-9007

[www.radi.com](http://www.radi.com)**WiFi/LAN to Serial/USB/BLE Adapter – RWLS8300 Series****WiFi/RJ45/Serial/USB/BLE Interface**

Radicom RWLS8300 industrial WiFi/LAN to Serial/USB/BLE product line is all new wireless to wire gateway solution. With built-in powerful CPU to process all necessary functions and features, RWLS8300 series product line is perfect solution for remote data communication through WiFi/Ethernet to Serial Port or USB port in a single platform. The networking capability provides many functions, such as TCP/IP, SLIP, ICMP, ARP, DHCP client, DNS, FTP client, POP3, SMTP, Telnet server and UDP and powerful security features.

RWLS8300 series offers various solutions for a Wireless to Wire interface. It provides RS232/RS422/RS485 for various serial interfaces and also provides WiFi/BLE/Ethernet communication. The RWLS8300BW is full features including BLE5.3 master to link to all BLE devices. The RWLS8300W is with WiFi AP router or device capabilities. RWLS8300 is perfect solution for all serial/USB interfaces to WiFi/LAN.

The onboard LAN functions are designed to meet the widely adopted **IEEE Std. 802.3™** with automation and buffering. The integrated serial port includes standard serial terminal features such as flow control, character length and a DTE speed of 921Kbps. The RWLS8300 series includes Flash memory allowing for updating firmware with the latest enhancements and for custom applications.

Accepts 12V/24V/48VDC to 5 VDC terminal block input or USB port for backup power input

**Products:**

- RWLS8300BW: RWLS8300+WiFi+BLE
- RWLS8300W: RWLS8300+WiFi solution
- RWLS8300BW-NE: No enclosure of RWLS8300BW
- RWLS8300W-NE: No enclosure of RWLS8300W

**Application:**

- Ethernet/WiFi/USB/Serial adapter
- Remote connectivity
- Remote monitoring and control
- Test and measurement equipment
- WiFi Network gateway adapter
- IOT gateway adapter

**RWLS8300NE****RWLS8300BW****LAN Features:**

- Designed to meet **IEEE Std. 802.3™**
- Supports IEEE 802.3az energy efficient Ethernet ability for 100Base-TX in full duplex operation and 10Base-T in full/half duplex mode
- Supports Green Ethernet
- Cable length power saving
- Link down Power saving
- Supports TCP/IP over SLIP.
- LED I/O to reflect LAN connection and link activity

**WiFi/BLE wireless Features**

- 802.11b/g/n compatible WLAN
- Supports TCP/IP, ICMP, ARP, DHCP client, DNS, FTP client, POP3, SMTP, Telnet server and UDP protocols
- Single port AP router
- AT command or Web-based configuration
- BLE master or slave
- WPA, WPA2, Open Shared Key security mode.
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**Serial Port Features:**

- High speed (921.6Kbps) UART (with modem control)
- Baud rates: 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 460800, 921600.
- Parity Bits: Odd, Even, None, Space, Mark
- Data Bits: 5, 6, 7, 8 ~ Stop Bits: 1, 1.5 or 2
- Hardware (RTS/CTS) flow control
- Remotely access serial port via Internet application
- 640/576 bytes Transmit/Receive FIFO buffer