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WizFi310-PA

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Quick Overview

802.11 b/g/n compliant serial to WiFi module.

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Details

WizFi310 offers a quick, easy, and cost-effective way for device and appliance manufacturers to add WiFi capabilities to their products. WizFi310 provides UART interfaces which enable connections to any embedded design utilizing an 8/16/32-bit microcontroller via simple AT commands.

WizFi310 is an ideal solution for organizations with limited or no WiFi or RF expertise, as it is not only reduces RF design time but also removes the burden on testing and certification. This allows customers to focus on their core application and product development .

Features

Application

- UART serial AT command set operation
- Support for multiple baud rate
- Support wireless configuration and OTA firmware upgrade
- Support on fast networking application functions (WPS function)
- Support MQTT, GMMP, TLS applications protocols

Standards Supported

- 802.11b/g/n compatible WLAN
- Light Weight TCP/IP protocol
- WPA, WPA2, Open, shared key
- WPS support

WLAN MAC Features

- CMOS MAC, Baseband PHY, and RF in a single chip for 802.11b/g/n compatible WLAN
- Complete 802.11n solution for 2.4GHz band
- 72.2Mbps receive PHY rate and 72.2Mbps transmit PHY rate using 20MHz bandwidth
- 150Mbps receive PHY rate and 150Mbps transmit PHY rate using 40MHz bandwidth
- PHY-level spoofing to enhance legacy compatibility
- Power saving mechanism

WLAN PHY Features

- 802.11n OFDM
- One Transmit and one Receive path (1T1R)
- Short Guard Interval (400ns)
- DSSS with DBPSK and DQPSK, CCK modulation with long and short preamble
- Maximum data rate 54Mbps in 802.11g and 150Mbps in 802.11n
- Fast receiver Automatic Gain Control (AGC)

Antenna	Printed PCB Antenna
Band	No
Booting Time	No
Dimension	18.6 x 24.5 x 3.15 mm
Ethernet I/F	No
Footprint	No
Memory	No
Operation Mode	No
TX Output Power	No
Data Rate Physical	72.2Mbps receive PHY rate and 72.2Mbps transmit PHY rate using 20MHz bandwidth 150Mbps receive PHY rate and 150Mbps transmit PHY rate using 40MHz bandwidth
Power Consumption	Deep Sleep - 5.5uA Sleep - 0.5mA Run in active clock - 25mA 11n RX mode - 62mA 11n TX mode@13dBm - 162mA Peak current - 240mA
Serial Command Type	No
Operating Temperature	-20° to +85° Celsius
Operating Voltage	No
Weight	No
Certification	No
Configuration I/F	No
Wifi Interface	1T1R RF Interface
Security	No
Standard	No
Manufacturer	No

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