

RS-WC-201 PRODUCT BRIEF



RS-WC-201

RS-WC-201: ADVANCED WI-FI FOR FOR M2M APPLICATIONS

The RS-WC-201 WiSeConnect™ module is a fully integrated 802.11 b/g/n module with advanced features for M2M, industrial, medical, enterprise and IOT (Internet of Things) applications. Powered with Wi-Fi Direct™, it can directly communicate with smartphones and tablet PCs without any Access Point based infrastructure. Integrated with Enterprise Security as well as TCP/IP and WLAN stacks, it can be designed quickly into any Host platform for secure and standards based Wi-Fi connectivity. The module also supports Access Point mode and can host data from a variety of sources such as sensors etc. in the module's in-built web server. Requiring no external BOM, the module integrates a MAC, Baseband Processor, RF Transceiver with power amplifier, a frequency reference and an antenna. The module comes with a comprehensive API set to make software integration quick and seamless. Based on Redpine Signals' 802.11n SoC RS9110, it is designed to provide wireless connectivity to devices that have a UART, SPI or USB interface.



Features

- 802.11b/g and single stream 802.11n
- Wi-Fi Direct™, Access Point and Client mode
- Enterprise Security - EAP-TLS, EAP-TTLS, EAP-FAST, PEAP-MSCHAP-V2
- Integrated TCP/IP stack, HTTP Server/Client, DHCP, DNS
- Over the air Firmware Upgrade
- Integrated antenna and option for external antenna
- Ultra low power operation with power save modes
- Single supply 3.1 to 3.6 V operation

Applications

- Consumer - Wi-Fi Connectivity for home appliances
- Enterprise - Wireless printers, Security cameras, Point of Sale terminals
- Industrial - M2M communication, industrial monitoring and control, data logging and streaming
- Medical - Patient monitoring, medical instrumentation with secure wireless connectivity

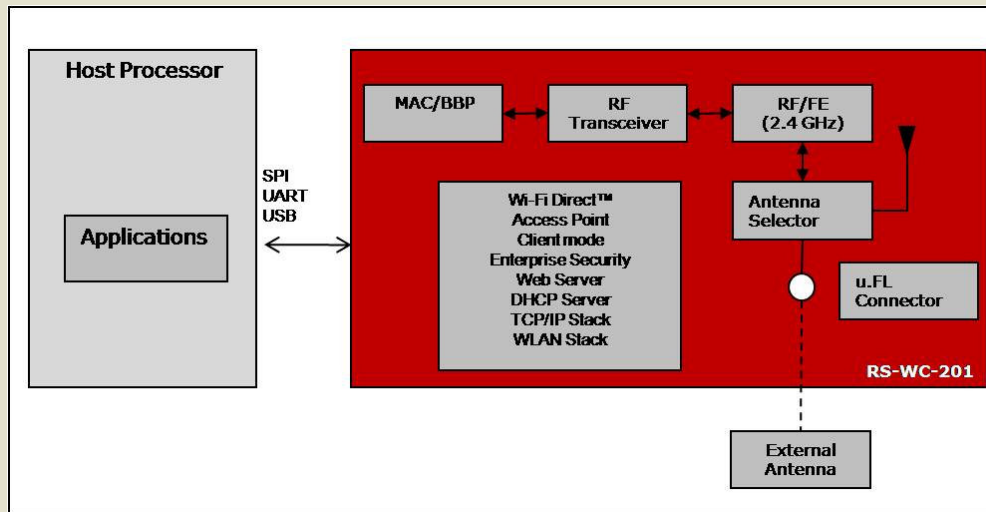
Specifications

| | |
|--------------------------|--|
| Network Standard Support | IEEE 802.11b/g/n |
| Frequency band | 2.400 - 2.500 GHz |
| Data Rates | 802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps |
| Modulation Techniques | OFDM with BPSK, QPSK, 16-QAM, and 64-QAM 802.11b with CCK and DSSS |
| Connectivity | Wi-Fi Direct mode, Access Point mode and Client mode |
| Wireless Security | WPA/WPA2-Enterprise, WPA/WPA2-PSK, WPS Provisioning |
| Networking protocols | TCP, UDP, DHCP, ARP, IGMP, DNS client |
| HTTP Server | Integrated Web Server for browser based connectivity |
| Host Interfaces | SPI, USB, UART(AT Commands supported) |
| Data throughput | Up to 5.5 Mbps in SPI and USB modes, 90 kbps in UART mode at a benchmark baud rate of 115200 bps |
| Operating Temperature | -40°C to +85°C |
| Supply Voltage | 3.1 - 3.6 V |
| Dimensions | 35mm x 22mm |

Evaluation Package

Redpine Signals provides a comprehensive evaluation package that includes an evaluation board, software, driver source code for the Host interface and documentation.

RS-WC-201 SYSTEM ARCHITECTURE



For additional information, please contact Sales at Redpine Signals, Inc.:

Redpine Signals, Inc. • 2107 North First Street • Suite 680 • San Jose, CA 95131

Phone: +1 408 748 3385 • Email: sales@redpinesignals.com

www.redpinesignals.com

Redpine Signals, Inc. reserves the right to make changes to the product(s) or information contained herein without notice. No Liability is assumed as a result of their use or application. Redpine, Redpine Signals, the Redpine logo, Driving Wireless Convergence, WiSeConnect and Lite-Fi are trademarks of Redpine Signals, Inc. All other company names, products and logos are registered trademarks of their respective companies.

© Copyright 2012 Redpine Signals, Inc. All Rights Reserved.

WiSeConnect™

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9