RZ Ecosystem Partner Solution
Silex SX-SDMAC with Bluetooth SDIO Wi-Fi Module

Solution Summary

SX-SDMAC is an SDIO type wireless LAN combo module that supports low power consumption Wi-Fi and Bluetooth. It is equipped with Qualcomm's QCA9377-3 chipset and is compatible with the high-speed communication standard, IEEE802.11ac, enabling high-speed, large data transmission. As it supports a wide temperature range required for industrial uses, it can be used for various products. Using this module with the RZ/A2M Evaluation Board Kit allows speedy evaluation. Drivers are also available from the Renesas website.

Features/Benefits

- IEEE 802.11a/b/g/n/ac (2.4 GHz / 5 GHz)
- Qualcomm's QCA9377-3
- Single Stream (1 x 1)
- Maximum PHY Data Rate of 433Mbps (11ac VHT80)
- Host Interface
  - Wireless LAN: SDIO3.0 / Bluetooth: UART
- Radio Law Certified (Japan, US, Canada, EU)
- Various Module Form Factors: Surface Mount, Connector, SD Card
- Industrial Temperatures (-40C to 85C)

Block Diagram

Target Markets and Applications

- Industrial Devices and Hand-held Terminals
- Video Devices (Surveillance Cameras)
- Smart Home Appliances

Why Choose Silex Technology?

Reliability
- 40 years of hardware and software connectivity know-how and IP
- RF design optimization
- Enhanced driver/security supplicant
- Unmatched support provided by local engineering resources

Quality
- Conformance to IEEE standards
- Wi-Fi Alliance certification testing at an authorized third party lab
- ISO 9001:2000 quality management system
- RF functional test for 100% of radio modules

Know-How
- SGH: design experience
- Enterprise security
- Seamless roaming
- Low-power consumption management

At Silex Technology, our expertise is built on more than 40 years of hardware and software connectivity know-how and IP, custom design development experience, and manufacturing capabilities. With relentless attention to quality, exclusive access to Qualcomm Atheros silicon and expertise, and strategic partnerships with leading real-time operating system (RTOS) and semiconductor providers, we are the trusted leader in reliable Wi-Fi connectivity.

Silex Technology Support from Design through Deployment

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