

RA Ecosystem Partner Solution

RELOC Wi-Fi FSP Driver



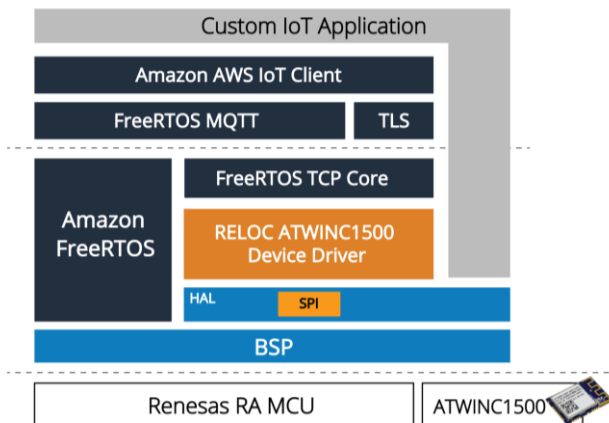
Solution Summary

The RELOC Wi-Fi FSP driver adds ATWINC15x0 Wi-Fi module support to the Renesas RA ecosystem in order to simplify the development of wireless connected products. The driver package includes a comprehensive IoT example application based on Amazon FreeRTOS and AWS IoT Cloud services.

Features/Benefits

- Integration of low-power ATWINC15x0 Wi-Fi module into Renesas Flexible Software Package (FSP), supporting both Wi-Fi station and AP modes
- Rapid development of RA IoT projects relying on comprehensive Amazon FreeRTOS connectivity bundle, including MQTTs 3.1.1, HTTPs, TLS1.2, firmware over-the-air (OTA) secure updates
- ATWINC1500 PMOD board available for simple connection to Renesas EK-RA6Mx kits
- Supported toolchains: e2studio and Keil
- Example project with AWS IoT cloud services integration
- Full customization service offered

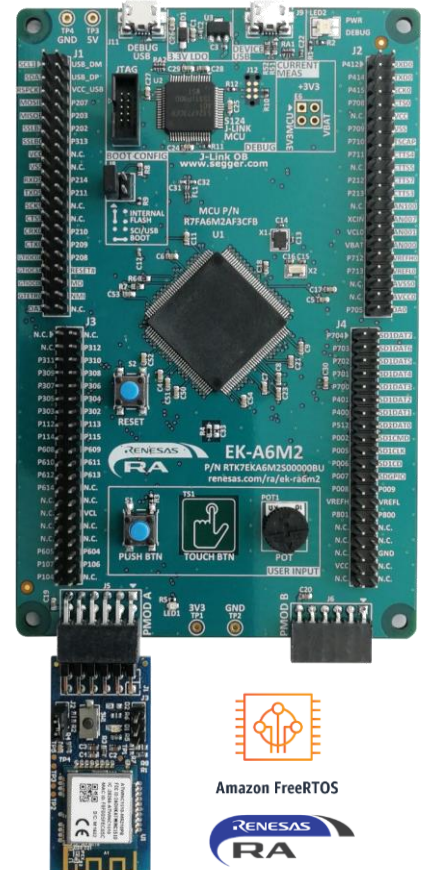
Block Diagram



Target Markets and Applications

- Smart Appliance
- Smart Home and Buildings
- Energy Metering
- Industrial Control
- IoT Cloud Gateway

<http://www.reloc.it/products/ra-fsp-driver-wifi/>



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Embedded Design & Internet-of-Things Solutions

RELOC provides customers with tailored end-to-end Internet-of-Things (IoT) solutions, starting from connected embedded devices to scalable cloud storage and services, exploiting reliable communications and deploying cross-platform mobile applications.

We support our customers by building solutions tailored to their specific needs, providing:

- Technology scouting
- Design of embedded hardware, based on a wide range of technologies (MCU, MPU, FPGA, DSP)
- Development of embedded firmware based on simple schedulers or multi-thread RTOS
- Focus on wireless connectivity, for industrial and consumer IoT, based on any radio protocol (BLE, ZigBee, Wi-Fi, Thread, 6LoWPAN, sub-GHz, cellular 2G/3G/LTE, LoRa, etc.)
- Integration with cloud services and mobile APPs to collect and process gathered data
- Support for test plan definition and certification process.

Why you should connect your products to the internet?



Engage your customers with new services



Save resources and stay competitive



Collect market data to optimize products



Create innovative product lines

