

RA Ecosystem Partner Solution

RELOC Wi-Fi FSP Driver



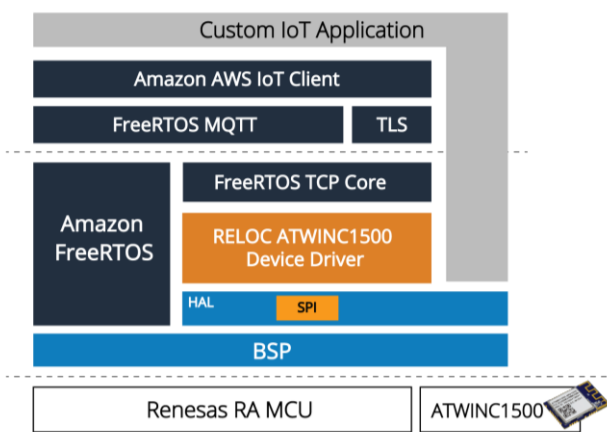
Solution Summary

The RELOC Wi-Fi FSP Driver adds ATWINC15x0 Wi-Fi module support to the [Renesas RA Family](#) ecosystem in order to simplify the development of wireless connected products. 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

Diagrams/Graphics



Target Markets and Applications

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

[Wi-Fi ATWINC1500 PMOD & drivers - RELOC](#)

YOUR PARTNER FOR 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 on 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?

- 1 Engage your customers with new services
- 2 Save resources and stay competitive
- 3 Collect market data to optimize products
- 4 Create innovative product lines

