

MCU Partners

☐ Renesas

- Wi-Fi with R8C MCU
- Wi-Fi with RX62N MCU
- Wi-Fi with RX63N MCU

Wi-Fi with RL78

☐ Freescale

☐ Cypress

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WiFi with RL78

The RS-RL78G13-22XXCC Companion Card for the Renesas RL78/G13 MCU's Starter and Demo kits comes as a ready to plug in adapter card, enabling the user to easily add future-proof, ultra low power 802.11n Wi-Fi technology. The Companion Card has Redpine Signal's RS9110-N-11-22 module which belongs to the Connect-io-n family of modules. The RS9110-N-11-22 module comes as a fully integrated module with an antenna and frequency reference and also embedded Wi-Fi and TCP/IP stacks, thus reducing the overall integration and development effort by a large margin. The companion card comes bundled with a comprehensive API library to configure the Wi-Fi module and transmit and receive data and also a demo application for the RL78/G13, in full source code form.



The companion card can be used to evaluate the features and performance of the module in addition to the RL78/G13 and its peripherals by giving the user a simple platform on which code can be run in only minutes from opening the box. It can also prove to be an invaluable development tool for custom prototypes using the I/O expansion headers on the RL78/G13 Board. The headers can be used to connect components like sensors and communicate the data from these sensors to a remote location using the RS9110-N-11-22 module.

RS-RL78G13-22XXCC Features

- Compliant to 802.11b/g and single stream 802.11n
- Supports all Wi-Fi client security protocols (WEP, WPA/WPA2-PSK)
- Supports TCP, UDP, ICMP, DHCP, ARP, IGMP, DNS
- Reference design certified for FCC/IC/CE
- RoHS compliant
- Integrated with MCU like a peripheral
- Full source code for API library and demo application
- Supports UART interfaces
- Integrated antenna, frequency reference and low-frequency clock
- Ultra-low-power operation with power save modes
- Ad-hoc and infrastructure modes for maximum deployment flexibility
- Comprehensive module documentation for design ease
- Single supply 3.1 to 3.6V operation

Renesas RL78/G13 Starter Kit with Redpine Signals 802.11n Wi-Fi Companion Card

RS-RL78G13-220X Kit is a bundling of the [Renesas RL78/G13 Starter Kit](#) with the Redpine Wi-Fi Companion card RS-RL78G13-22XXCC

SUPPORT



DOCUMENTATION

 [Quick Start Guide](#)

SOFTWARE DOWNLOADS

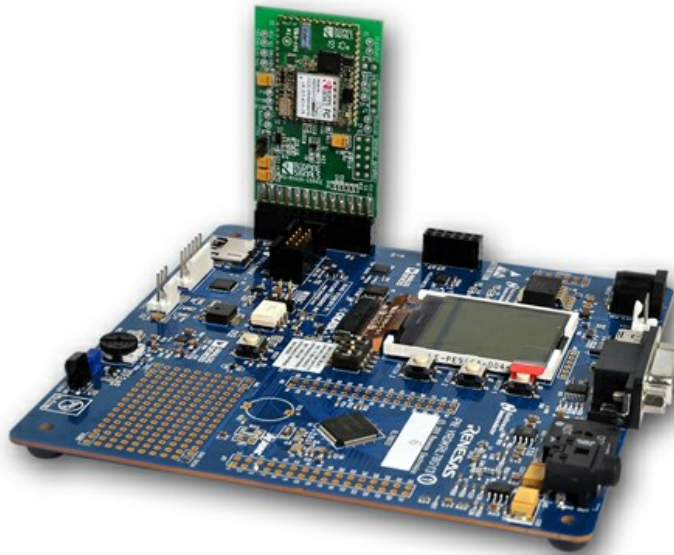
▸ [Source code for API Library and demo application on RL78/G13](#)

KIT CONTENTS

- CPU Board with RL78
- Companion Card with RS9110-N-11-22
- Detachable LCD Display Module
- J-Link Onchip Debugger and Flash Programmer
- Connection Cable (USB Cable)
- USB Powered
- Printed Quick-Start Guide

TECHNICAL RESOURCES

 [White Papers](#)



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