RL78 SDK Getting Started Guide

Market-ready Security for the Renesas RL78 MCU and IoT

Veridify Security provides fast, small footprint, ultra-low-energy, and quantum-resistant authentication and data protection software for low-resource MCU devices (i.e., Renesas RL78, RA, RE01) and the 8-32-bit IoT endpoints they connect to. Veridify's security software is up to 40X faster than legacy ECC security.

Order an RL78 Prototyping/Starter Kit and IDE

Renesas RL78 Fast Prototyping Kit: Learn more
Example: RL78 Starter Kit: Learn more
Order RL78 Board from Distributor: Learn more from Mouser and Digi-key
Download and Install e2 Studio IDE

Configure Your RL78 Board

Use latest Renesas RL78 e2studio version with Veridify's Security SDK (older IDE versions will also work).
Connect the RL78 board to your PC via the USB port.

PC Requirements

Ensure that PC OS and hardware requirements are met, based on Renesas e2 Studio recommendations.

Download and Install Veridify's Free IoT Security SDK

Download Veridify's Security SDK from the Renesas Industrial Automation Security website:
  - Open the Veridify IoT SDK .zip file
  - Click on the Veridify Password and SDK License .pdf file
  - Read license agreement, scroll to bottom, write down password
  - Close file, right click on the SDK .zip file and extract
  - Enter password to unzip and open SDK files, User's Guide, Readme, etc.
  - Import project files to e2 Studio
  - Open Veridify Security SDK RL78 project within e2 Studio for evaluation

Included in Veridify's IoT Security SDK:
  - Usage documentation
  - IDE project and configuration files
  - Crypto Library
  - Sample C source code
  - Sample keys, certificate and digital signatures

Markets

- IoT
- Industrial
- Home Appliances
- Healthcare
- Consumer
- Automotive

Enables the Following Security Applications / Functions

- Authentication
- Identification
- Data Protection
- Secure Boot
- Secure Firmware Update
- Command Validation

Corporate Headquarters: 100 Beard Sawmill Road, Suite 350, Shelton, Connecticut, 06484 USA
Silicon Valley Office: 75 East Santa Clara Street, San Jose, California, 95113 USA
1.888.272.1977 ● www.veridify.com