

Market-ready Security for the Renesas RA Platform and IoT

Veridify Security provides fast, small footprint, ultra-low-energy, and quantum-resistant authentication and data protection solutions for low-resource MCU devices (ie, Renesas RA2, RL78) and the 8-32-bit IoT endpoints they connect to.

Order a Renesas RA Evaluation/Development Kit and IDE

Renesas RA Eval Kits: [Learn more](#)

Example: RA2 Eval Kit: [Learn more](#)

Order RA Board from Distributor: Learn more from [Mouser](#) and [Digikey](#)

[Download and Install](#) e2 Studio IDE

Configure Your RA Evaluation/Dev Kit

Use latest Renesas RA FSP e2studio version with Veridify's Security SDK (older versions will also work)

Connect RA Eval/Dev Kit to your PC via the micro USB port.

PC Requirements

Ensure that PC OS and hardware requirements are met, based on Renesas e2 Studio [recommendations](#).

Download and Install free IoT Security SDK

Download Veridify's Security SDK from the [RA MCU partner website](#)

- Open Veridify IoT SDK .zip file
- Click on 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 RA 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

- Industrial/Building Automation
- Industrial IoT
- Energy & Metering
- Whitegoods
- Healthcare
- Automotive

Applications / Security Functions

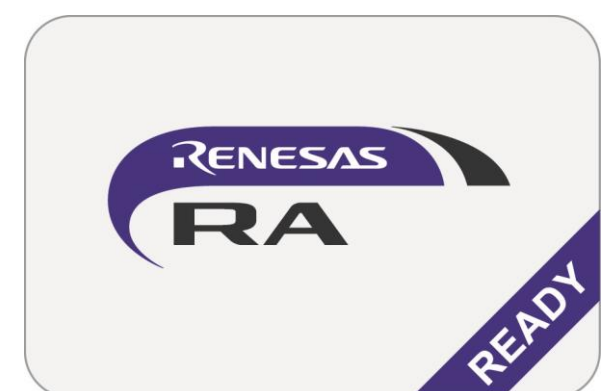
- Authentication
- Identification
- Data Protection
- Secure Boot
- Secure Firmware Update
- Command Validation

Faster Execution

ARM Cortex - M23	
Test Platform	EK-RA2A1
Clock Speed	48 MHz
Ironwood Runtime	8.4 ms
ECDH Runtime	335 ms
Ironwood Improvement	40x

Smaller Footprint

ARM Cortex - M23	
Test Platform	EK-RA2A1
Ironwood - ROM	1,883 bytes
ECDH - ROM	6,872 bytes
Ironwood Improvement	3.6x
Ironwood - RAM	540 bytes
ECDH - RAM	840 bytes
Ironwood Improvement	1.5x



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