

RZ Ecosystem Partner Solution

OneKiwi Secure RZ/V2H & RZ/V2N SOM



Solution Summary

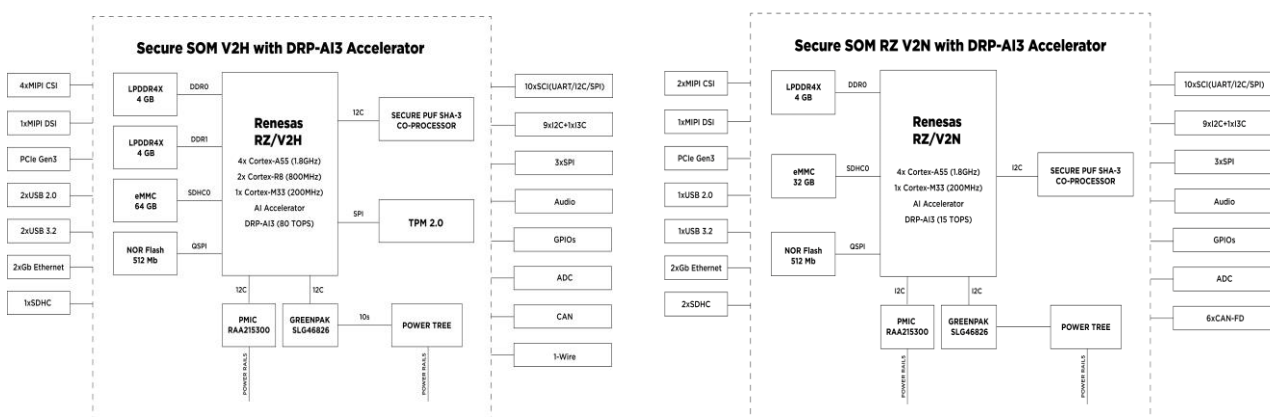
The OneKiwi Secure V2H and V2N SOMs (System on Module), based on Renesas [RZ/V2H](#) and [RZ/V2N](#) MPUs, deliver secure, high-throughput AI inference at the edge for vision-centric applications. Featuring a compact, modular architecture with integrated PUF SHA-3 and Advanced Security IP, it enables trusted execution environments for local AI workloads. Optimized for scalability, energy efficiency, and rapid deployment, it supports real-time processing across industrial and IoT systems.

Features/Benefits

- RZ/V2H & RZ/V2N Quad core Cortex-A55® 1.8 GHz, Cortex-M33 CPU, Dual Cortex-R8®, VPU, ISP, GPU
- DRP-AI3 as high-speed AI inference processing and excellent power efficiency
- Storage eMMC 32GB/64GB* and RAM 4GB/8GB* LPDDR4X
- Advanced Security IP Module protecting integrity and authenticity of embedded systems
- Small Form Factor by (W x L x H): 65mm x 40mm x 6mm
- Form factor can be customized to SMARC, OSM open standard
- Support additional hole for heatsink mounting
- Supports Yocto Linux and Ubuntu

* Only RZ/V2H

Diagrams/Graphics



Target Markets and Applications

- Edge AI applications
- Smart parking lot
- Smart traffic monitoring
- Service robot
- Industrial drone
- Robot cleaner
- AI security camera
- Media streaming gateway
- Smart IoT gateway



OneKiwi is a fast-growing start-up company that specializes in designing and manufacturing high-performance SOMs (System on Module) and BMS (Battery Management System) for various applications, such as Industrial Automation, Robotics, IoT, AI-based Applications and more.

OneKiwi is committed to delivering high-quality, reliable, and innovative SOM solutions to its customers.

We are constantly improving its products and services and staying ahead of the latest trends and technologies in the embedded system industry. OneKiwi is your trusted and preferred SOM partner.

Prime focus areas are:

- System on Modules (SoMs) & Battery Management System (BMS) Solution Provider
- Independent Design House (IDH)
- Antenna performance Testing & Optimization

Mission and Vision

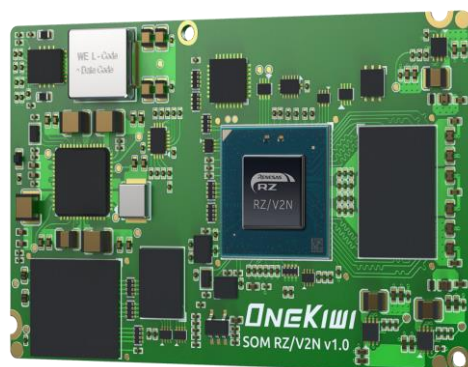
Mission: OneKiwi pioneers IoT & Embedded solutions, connecting the world for a smarter future. Our expertise drives innovation, creating secure and scalable IoT solutions for homes, industries, and beyond. Join us in shaping a connected tomorrow.

Vision: To be the preferred partner for startups and businesses, driving advancements in embedded technology, IoT, renewable energy, and smart city solutions, and fostering a collaborative ecosystem for innovation and growth.

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Location: Asean/ Vietnam



RZ/V2N SOM: www.onekiwi.com.vn/products/som-renesas-ai-rz-v2n

Shop: www.onekiwi.com.vn/product/som-renesas-ai-rz-v2h

Shop: www.onekiwi.com.vn/product/som-renesas-ai-rz-v2n