R-Car Proactive Partner Solution
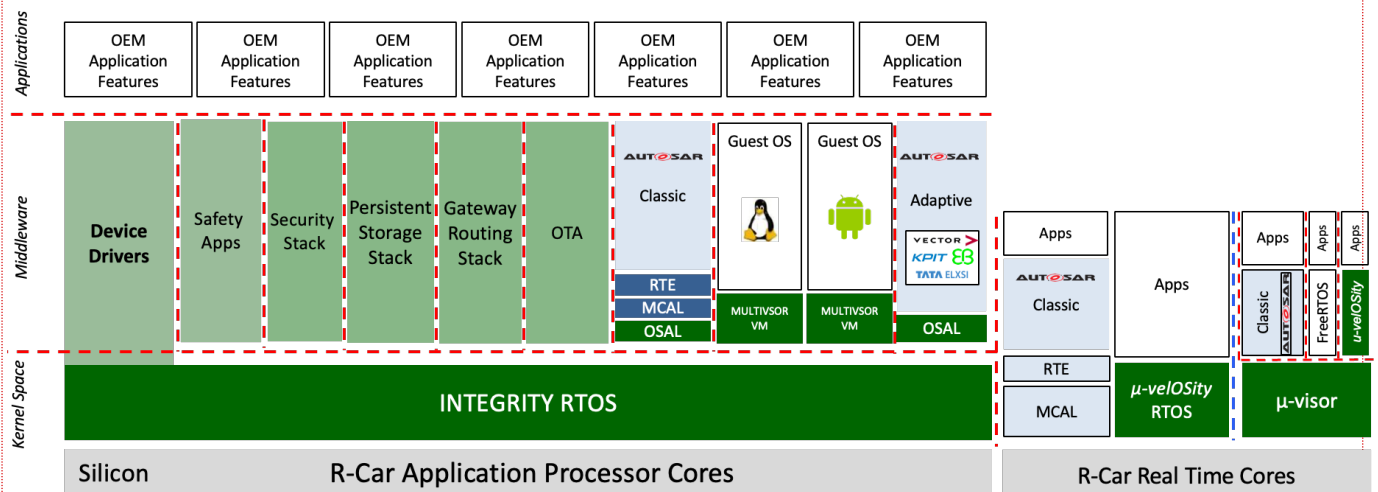# INTEGRITY® RTOS

RENESAS R-Car *Consortium*

Solution Summary

The ISO 26262 and ISO 21434 certified Green Hills Platforms for Automotive enable Renesas R-Car solutions for e-Cockpit, Driver Monitoring, ADAS, domain controllers and zonal gateways to fully leverage Green Hills Software's family of certified products.

Features/Benefits

- ISO 26262 and ISO 21434 certified
- Built from the start for high safety and security systems
- Provides real-time scheduling
- Large network of automotive middleware partners
- Secure and safe virtualization technology for non-safety guest operating systems
  - Fully leverages R-Car hardware acceleration

Diagrams/Graphics

Target Markets and Applications

- Green Hills Software has RTOSs and advanced tools for all the cores in the R-Car SoCs
- Cockpit/Infotainment
- Driver Monitoring
- Instrument Cluster
- Vision/camera systems
- Sensor Fusion
- Radar
- Battery Management
- Gateway
- Zonal Controllers
- Automated Driving
- SDV
- ADAS
- Telematics

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Company Profile

For decades, Green Hills' product solutions and experience has lead the industry in helping our customers achieve the highest levels of both safety and security certifications. With its tools, RTOS and hypervisor services providing functional safety certification support for ISO 26262 up to ASIL D, and it's adoption of the latest global automotive cybersecurity standards covering ISO/SAE DIS 21434 CAL4 and UNECE WP.29 CSMS, Green Hills remains the company to rely on to understand and support the broadest and latest safety and security standards for vehicle electronics development. Deployed in hundreds of millions of vehicles, the Green Hills Platforms for Automotive offer scalable run-time environments with secure partitions, safe, secure embedded multicore virtualization, fast boot and advanced development tools that lower development costs and reduce time-to-market. The INTEGRITY® RTOS is a hard real-time operating system that never sacrifices real-time performance for security and protection. INTEGRITY can respond to events in nanoseconds, guaranteed.

More Information/Inquiries

Please contact us at info@ghs.com or our information page for more information, or to set up a meeting to discuss product evaluation needs and requirements.