![SYSGO EMBEDDING INNOVATIONS]

R-Car Proactive Partner Solution
SYSGO – ADAS Platform

RENESAS R-Car Consortium

Solution Summary

Apex.AI, Renesas, and SYSGO have joined forces to bring you a simpler solution for Software-Defined Vehicle built upon Renesas R-Car ECUs with SYSGO RTOS and hypervisor technology for mixed criticality. And Apex.AI's functionally safe Apex.AI and Apex.Ida products. The solution is automotive grade and ASIL D safety certified to speed your way to production.

Features/Benefits

Certifiable ROS 2 Stack: Partnership
Renesas (R-Car H3 board)
Apex.AI (Apex.Grace, LiDAR 3D perception)
SYSGO (PikeOS RTOS & Hypervisor)

ROS 2: Flexible, open-source SW platform
Tools, libraries, and algorithms to simplify creating complex behaviors of Robotic and Automotive platforms

SW-defined Smart Vehicle RTOS
Hard real-time, Safety certification up to ASIL D

Processing in Apex.Grace / ROS 2 Nodes
Multiple PikeOS partitions

Diagrams/Graphics
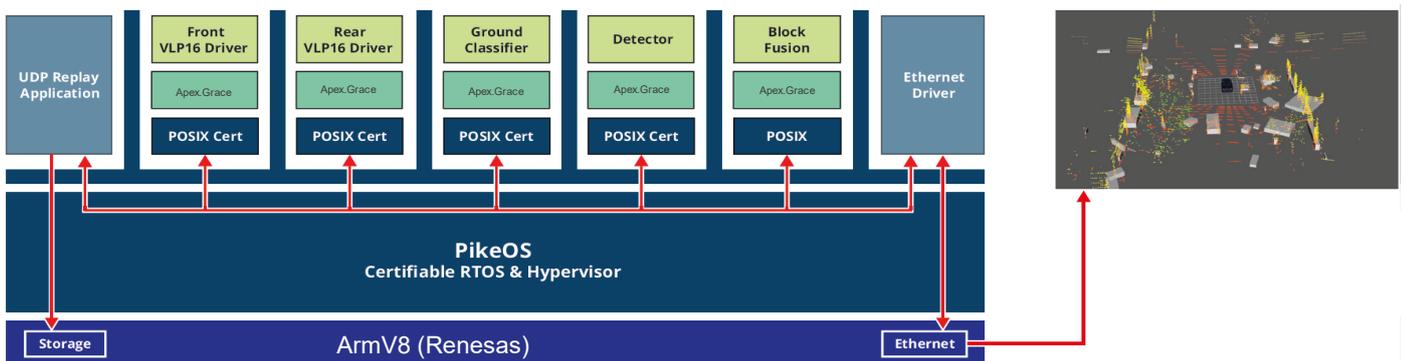
Target Markets and Applications

- Automotive
- Off highway
- Railway

https://www.sysgo.com/automotive

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Company Name	SYSGO
Address	Am Pfaffenstein 8 55270 Klein-Winternheim Germany
Date of Creation	1991
CEO	Etienne Butery
Business Description	SYSGO is the leading European provider of real-time operating systems for critical embedded applications in the Internet of Things (IoT). Our customers are leading industry players who use our PikeOS and ELinOS products as a platform for critical systems that need to be certified against industry-specific Safety and Security standards
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