R-CAR NEW BOARD UPDATE
IT’S UNDER PLANNING.....

2023/JUL/14
HARUNOBU KUROKAWA

RENESAS ELECTRONICS CORPORATION
R-Car series were used as AGL Reference Board since 2015
AGL OFFICIAL DEMO #1, #2, #3 (CES 2023@LAS VEGAS)

The joint development demonstration by AGL members (including Renesas) exhibited three types of demonstrations. All of them use R-Car H3.

- **1**: Cockpit demo with H3 (IVI) and Raspberry Pi4 (Cluster) using new HMI (Flutter). Steering Wheel is provided by Suzuki
- **2**: Container isolation demo incorporating technical elements from IC-EG (IVI switching)
- **3**: Integrated cockpit demo incorporating KVM/VirtIO at Virtualization-EG
Renesas will be contributing OSS activity to accelerate Automotive industry with AGL community.

What’s new for next step?
▪ Renesas offers Connected Car Platform based on OSS to accelerate connected application development and we contribute IVI /Gateway in several communities.

▪ AGL and customer are hope to next-gen SoC board for community to growth automotive industry.
R-Car S4 Starter Kit That Enables Rapid SW Development for Automotive Gateway Systems

Coming Soon!
R-Car S4 Whitebox SDK
Release schedule

Benchmark apps (Memory)
Benchmark apps (Network)
Benchmark apps (CPU/ICCOM)
Routing conversion apps
CAN-Ether conversion
CAN-Ether routing
Node Exporter
TCP/IP routing

Benchmark apps (CPU/Memory)
Benchmark apps (Network/ICCOM)
Benchmark apps (Network)

AosEdge (AosCore)
AWS IoT FleetWise
Grafana

COVESA CVII Server
AWS IoT Greengrass
Prometheus server
Node Exporter

R-Car BSP Libraries / Standard Libraries
(Python, Libc, etc.)

RTE(CP) / BSW for TOPPERS(*1)
RTE(CP) / BSW for Trampoline(*1)

ICCOM Driver
Flash Driver
UART Driver
CAN Driver
ICCOM Driver
UART Driver

TOPPERS/ATK2(*1)
SafeG-Auto (Hypervisor)
Trampoline OS(*1)

Zephyr
Linux
Xen Hypervisor
TF-A

Optee

Ver3.0 (Available)
Ver4.0 (2023 8E)
Ver5.0 (2023 11E)

OSS based SDK (Free of charge)
Quirky Quillback

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Quirky Quillback

New Features Developed

Start of Development

- Initial S4 support in meta-agl/meta-agl-bsp
- agl-image-minimum agl-telematics-demo-image

TBD plan CAN driver (CR52) and OpenAMP

Development

M1 11.24
M2 12.15
M3 01.26
Final Release 02.16.24

As of 11 July 2023