

R-Car Market Place Overview

Jun 2021

OVERVIEW OF MARKET PLACE

MARKETPLACE CONTRIBUTION FOR CUSTOMER DEVELOPMENT

Customer requirement

Need to get appropriate contents quickly...

- How to access to document store quickly ?
- How to get technical solution quickly ?
- How to get evaluation software quickly ?

Market Place is opened

Easy to find !

Find rich contents of evaluation SW, hardware manual, technical info. by Market Place web system

Easy to access !

Quick download for rich contents from Market Place by registration **USERS.** (NDA contract customer and plan for NDA)

Easy to Evaluate !

Quick download for evaluation SW including Proactive Partner solution by Market Place web system

WHAT CAN DO AT MARKET PLACE

- R-Car technical information and SW can be downloaded from Market Place
 - * Account registration is required.
 - Software: Linux® BSP, Android™ BSP *Click-through license
 - Document: Device manual, Technical update, Board manual
 - Learning content: Application note + Video
- Get a reference design of the R-Car Consortium Proactive Partners
 - Introducing how to download or obtain partner solutions that have been evaluated on R-Car.
- Solve questions and issues in the Engineering Community
 - Self-solving by FAQ and problem solving in the community where R-Car Developer discuss mutually

RICH CONTENT IS AVAILABLE ON MARKET PLACE

Easy to find

Present categorized technical information such as evaluation software and hardware manuals.

Easy to access

Enable to access rich content(NDA) only by user registration.

Easy to Evaluate

Web-based click-through contract
Quick download for evaluation SW

Market Place -web page-

The screenshot shows the Market Place web page with a navigation menu on the left and a main content area. The navigation menu includes: Market Place, Reference Designs, R-Car Software Environment Release Information, Documentation, Events, R-Car Educational Program, Solution Matching System (External Link), FAQ, Forum, and Contact. The main content area has buttons for Linux Software and Android Software. Below these is a section for R-Car Software Environment Release Information with a disclaimer. A section for Linux Software contains a table with columns: Title, Description, Created, Note, and Link. A 'Back To Top' button is at the bottom.

Title	Description	Created	Note	Link
Linux Base package	R-car Gen3 Linux SW and Multimedia library (Yocto v3.21.0)	Oct 2020	-	Download
Linux IVI option	Optional video and audio codecs for IVI application (Yocto v3.21.0)	Oct 2020	Download and use of this software is subject to the terms of the Renesas Software License Agreement accepted at registration.	Download
Update Guide	Guide for updating Yocto v3.21.0 to the latest version	Oct 2020	-	Download

DETAIL INTRODUCTION

1.HOW TO REGISTER AND LOG IN(1)

- Access to R-Car consortium homepage

– <https://www.renesas.com/br/en/support/partners/r-car-consortium>

– The page on the right is displayed.

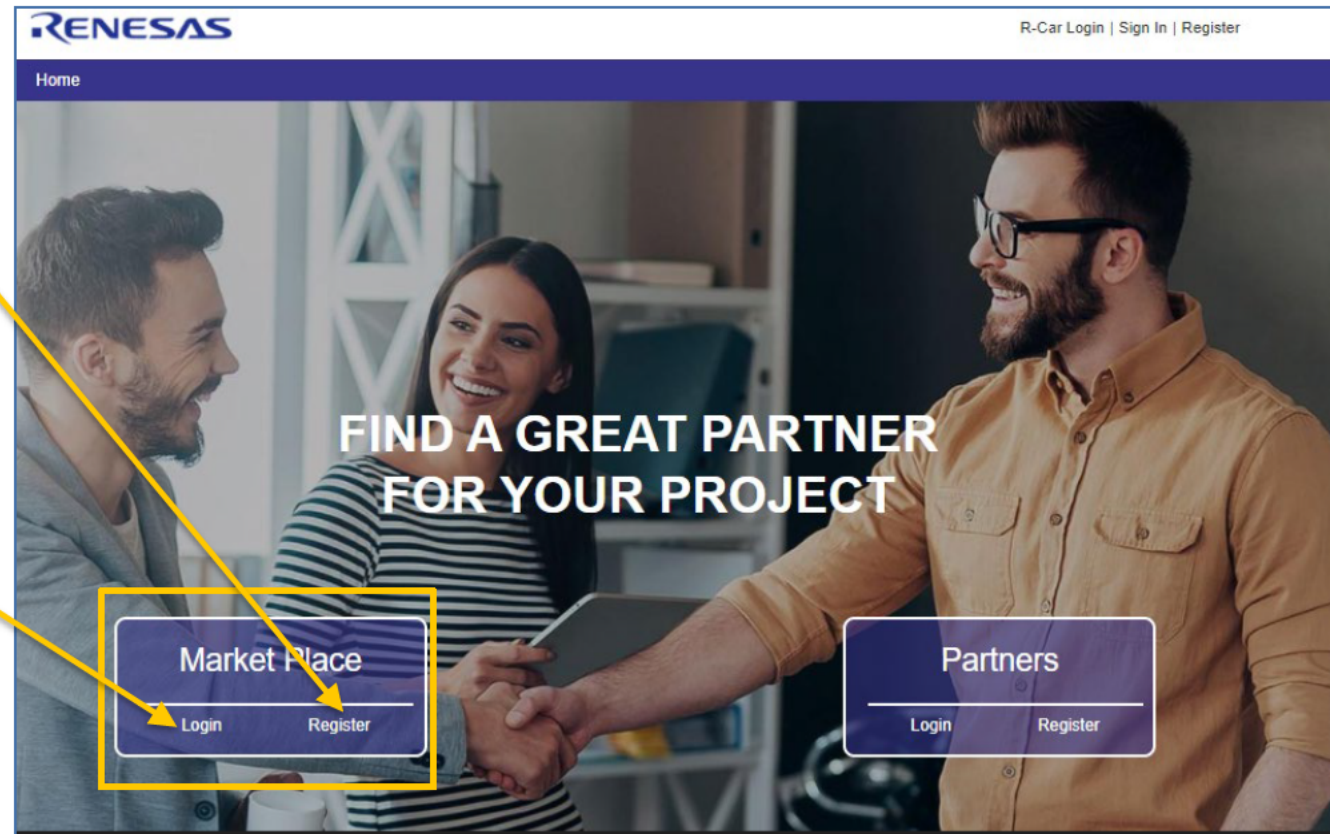
- Click “Market Place”

– Move to registration and log in page

The screenshot shows the R-Car Consortium homepage on the Renesas website. The page has a dark blue header with the Renesas logo and navigation links: PRODUCTS, APPLICATIONS, DESIGN & SUPPORT, BUY & SAMPLE, and ABOUT. Below the header, the page title is "R-Car Consortium". The main content area includes a description of the consortium, its goals, and a list of resources for customers and partners. A yellow box highlights the "For Customers" section, which contains links to "Solution Matching System", "Market Place", "R-Car Consortium Partners", "R-Car FAQs", and "Forum". A blue box highlights the "Market Place" link in the "For Customers" section. A yellow arrow points from the "Market Place" link to a larger yellow box on the right side of the page, which is a magnified view of the "For Customers" section. This magnified view shows the "Market Place" link in a larger font and with a blue background, along with the other links in the section.

1.HOW TO REGISTER AND LOG IN(2)

- There are two box which are Market Place and Partners, please use Market Place box.
- For registration:
 - Click “Register” in Market Place box
 - Move to registration flow.
- For log in:
 - Click “Login” in Market Place box
 - Move to log in flow.



(*) Must be filled in.

1-1.REGISTRATION FLOW(STEP1)

- This is the application screen for creating new account(step1).
- Please fill in the following information.
 - Country/Region(*)
 - Language(*)
 - Email Address(*)
- For next step, click “Continue” button

***Please use your company email address.**

The screenshot shows the Renesas website registration page. At the top left is the Renesas logo. Below it is a dark blue navigation bar with the word "Home". The main heading is "Registration". In the top right corner, there is a progress indicator showing three steps: "Step 1: Location and Language Preferences" (highlighted), "Step 2: User Detail Questions", and "Step 3: Partner Organization Questions". The registration form contains three fields: "Country/Region: *" with a dropdown menu showing "Japan", "Language: *" with a dropdown menu showing "English", and "Email Address: *" with a text input field. A blue "Continue" button is located below the form. At the bottom right, there are two buttons: "Control content" and "Edit this page".

1-1.REGISTRATION FLOW(STEP2)

(*) Must be filled in.

- This is the application screen for creating new account(step2).
- Please fill in the following information.
 - Title
 - Given Name / First Name(*)
 - Family Name / Last Name(*)
 - Job Title / Section(*)
 - Office Phone number
 - Cell Phone number
 - Please click “Next Step”

RENESAS

Home

Registration

Step 1 Step 2 Step 3

Title:
Please Select

Given Name / First Name: *

Family Name / Last Name: *

Job Title / Section: *

Email Address: *
mitsuhiro.tomita.pc@gmail.com

Office Phone Number:

Cell Phone Number:

Next Step

1-1.REGISTRATION FLOW(STEP3)

(*) Must be filled in.

- This is the application screen for creating new account(step3).
 - Please fill in the following information.
 - Company Name(*)
 - Address(*)
 - City(*)
 - State/Province(*)
 - Zip/Postal Code(*)
 - Organization URL(*)

The screenshot shows the Renesas registration interface. At the top, the Renesas logo is visible. Below it, a navigation bar contains 'Home'. The main heading is 'Registration'. A progress indicator shows 'Step 1', 'Step 2', and 'Step 3' (the current step). A legend indicates: Step 1: Location and Language Preferences, Step 2: User Detail Questions, Step 3: Partner Organization Questions. The form fields are: Organisation/Company Name (*), Address (*), City (*), State / Province: (*), Zip/Postal Code: (*), Country/Region: (United States), and Organisation URL (*). Below these is the 'R-Car User Type' dropdown (Please Select) and a checkbox for 'I accept the Terms & Conditions (*)'. A 'Next Step' button is at the bottom.

1-1.REGISTRATION FLOW(STEP3) -CONT.

- In Select R-Car User Type, if select Marketplace User(*), the check box will appear for confirming the NDA conclusion status and agreeing to a click-through license.

R-Car User Type *

Marketplace User

NDA *

Yes No

Please indicate your NDA status with Renesas above.

I accept the Terms & Conditions *

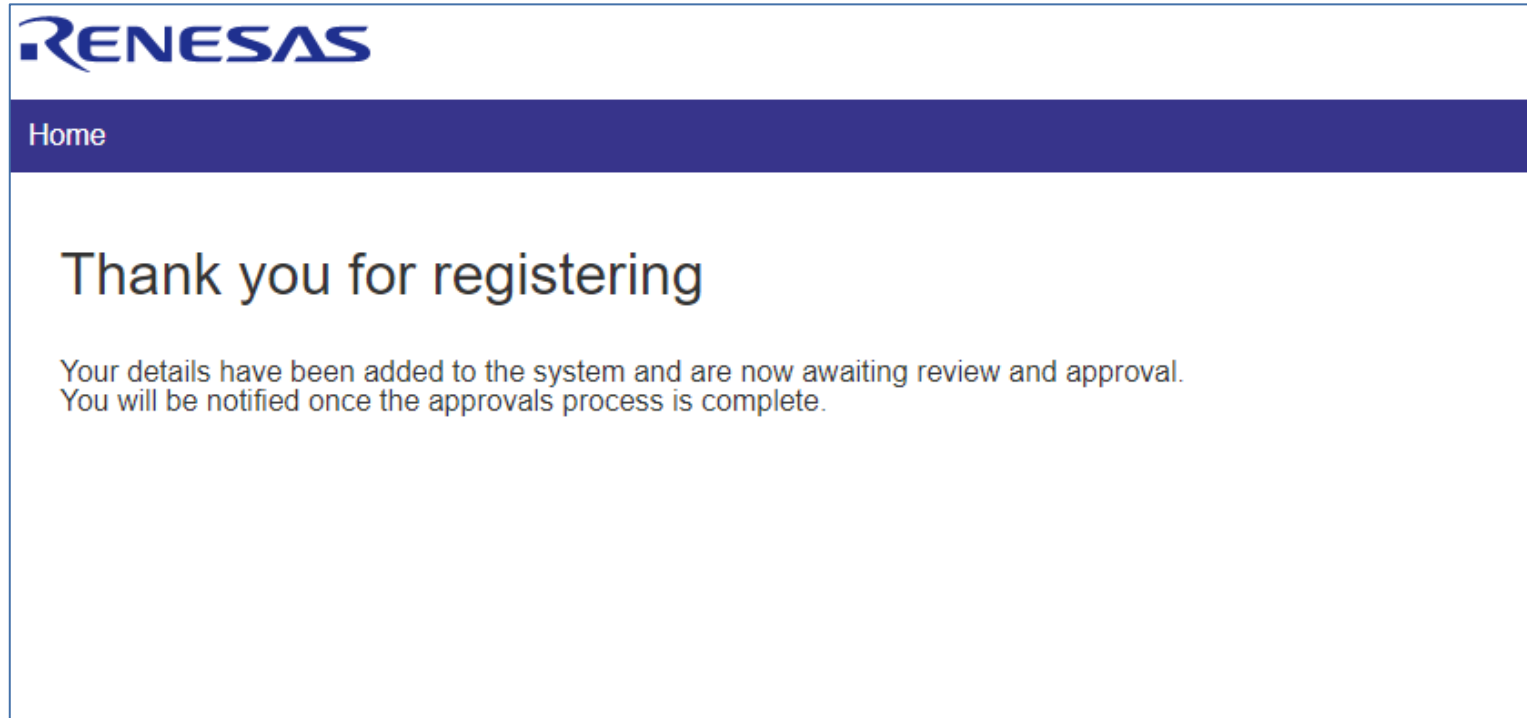
Check here to indicate that you have read and agree to the Renesas website terms of use and privacy policy

Next Step

- Please check “Yes” or “No” according NDA conclusion status of company.(*)
- If there is no valid contract, select "No" to apply.
Renesas will confirm the status after received the application.
- If you can accept the Terms & Conditions(*), please click “Next Step”

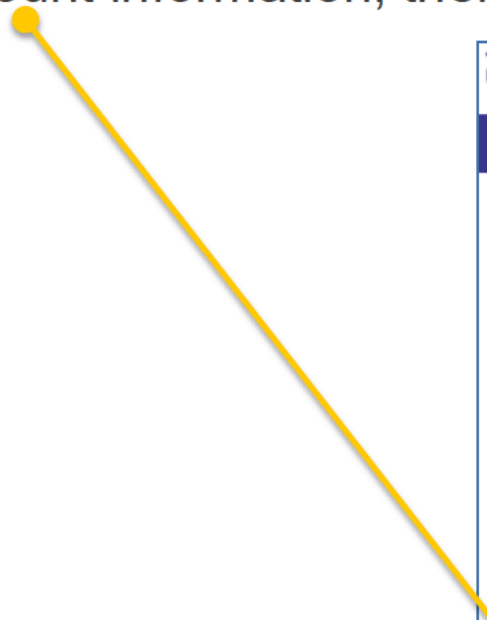
1-1.REGISTRATION FLOW(COMPLETED)

- Your registration complete In addition, the following screen will be displayed.



1-2.LOG IN FLOW

- If you click “Login” in Market Place box, move to this page
- Please fill in your account information, then click “Login” button.



RENESAS

Home

Market Place & R-Car Consortium Partner Login

Recommended browsers : Google Chrome, Microsoft Edge and Mozilla Firefox

[For Customers]
User account dedicated to Market Place is required to use Market Place and can be obtained from the top page.
If you already have registered username and password, please use them for login. Username of Market Place is same as your mail address.
Please notice that My Renesas account can NOT be used in Market Place.

[For Partners]
User account dedicated to R-Car Consortium member site is required to use R-Car Consortium member site.
* Please use the “Sign In” link in the top right corner of the top page for login, in case you already have My Renesas account registered to R-Car Consortium member site.

If you have any question regarding Market Place register, please access following mail-address
r-car-market-place@lm.renesas.com

Login

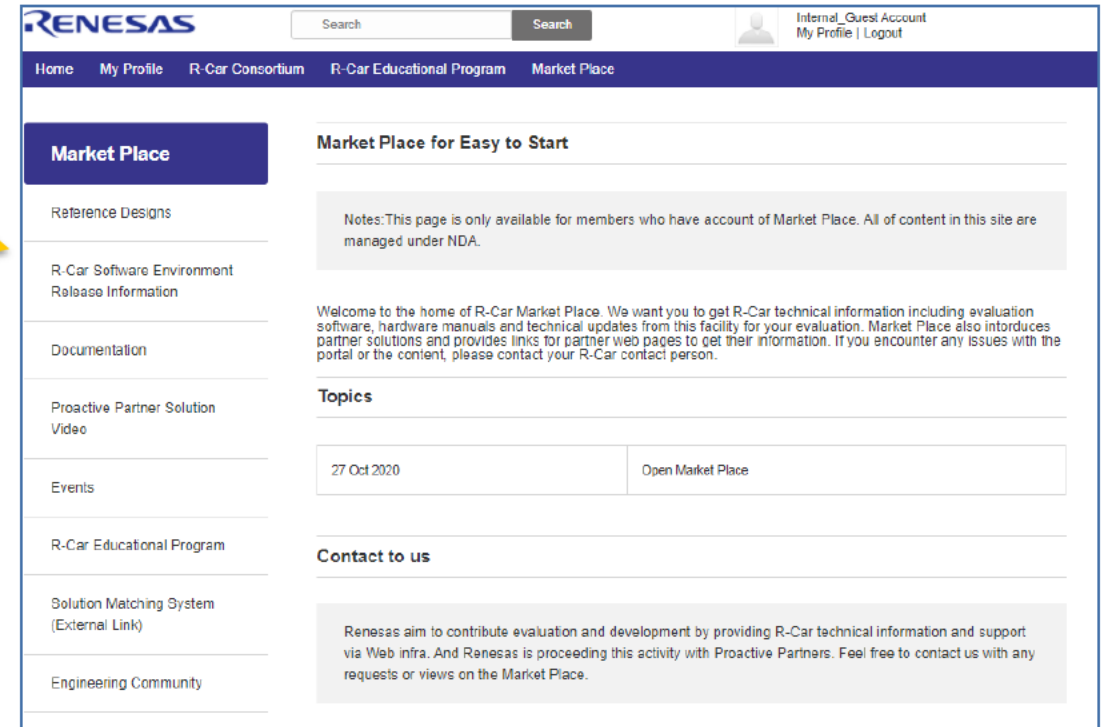
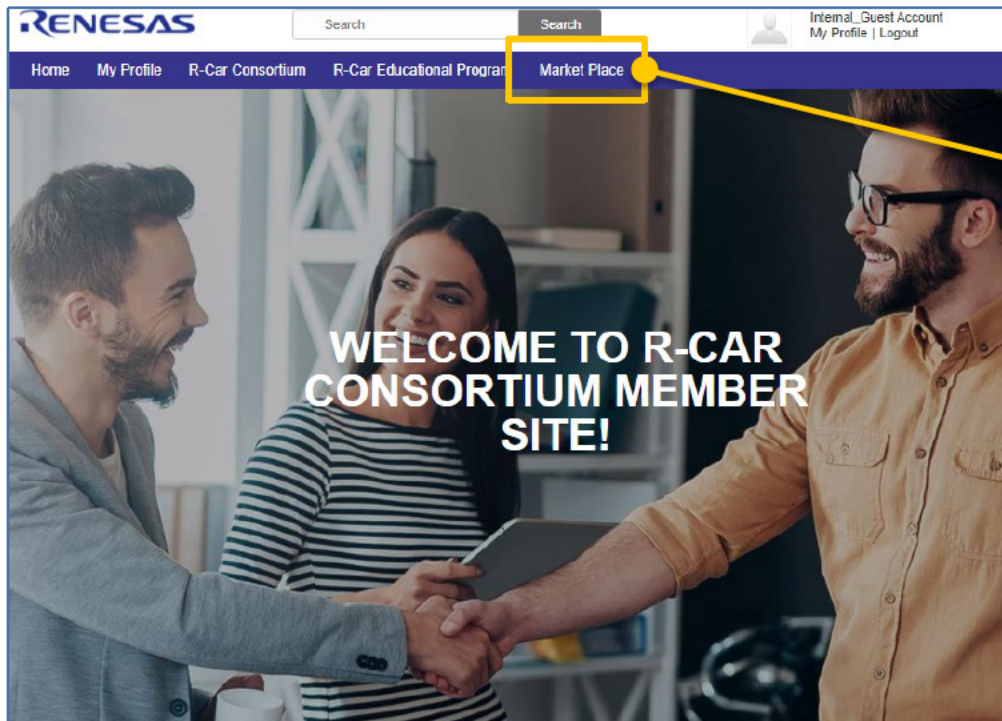
DO NOT use MyRenesas credentials

Remember Me

[Forgotten your password?](#)

1-2.LOG IN FLOW -CONT.

- After logging in, the page on the left will be displayed.
- Please click “Market Place”, then move to Market Place top page.



2-1.WHAT KIND OF CONTENT CAN BE DOWNLOADED?

- Reference Design: Proactive Partner in R-Car consortium provide their solution that have been evaluated on R-Car.

The screenshot shows a 'Market Place' website interface. On the left is a navigation menu with items like 'Reference Designs', 'R-Car Software Environment Release Information', 'Documentation', 'Proactive Partner Solution Video', 'Events', 'R-Car Educational Program', 'Solution Matching System (External Link)', and 'Engineering Community'. The main content area is titled 'Reference Designs' and features a sub-header 'Reference Designs' with a descriptive text box: 'Proactive Partners provide solutions that have been confirmed to work on R-Car for each application.' Below this, there are tabs for 'IVI/Cockpit', 'Instrument Cluster', 'ADAS', 'Gateway', and 'Common'. The 'IVI/Cockpit' tab is selected, showing a 'Camera View' section for 'Hitachi Solutions Technology, Ltd.'. A table lists the solution details, and a 'Link' column contains a 'Partner URL'. Three callout boxes provide additional context: one at the top explains the tab categorization, one pointing to the table header explains the overview, and one pointing to the link explains the download request process.

Market Place

Reference Designs

R-Car Software Environment Release Information

Documentation

Proactive Partner Solution Video

Events

R-Car Educational Program

Solution Matching System (External Link)

Engineering Community

Reference Designs

Proactive Partners provide solutions that have been confirmed to work on R-Car for each application.

IVI/Cockpit

Camera View

Hitachi Solutions Technology, Ltd.

Title	Description	Target Device	Created	Note	Link
Hitachi Solutions Technology, Ltd.	Camera View Image Solution	R-Car H3, M3, E3, D3, V3H, V3M	2020.10	Please check "ダウンロード" field on their site	Partner URL

FastBoot/QuickBoot

Ubiquitous AI Corporation

Callouts:

- Categorize solutions for each application. In addition, user can jump to the beginning of each application, since tab function was implemented for each button.
- Explain the overview of the solution
- It contains notes when move to the partner's website.
- This is a link to the partner's website. At the link destination, SW can be downloaded, or a release can be requested.

2-2.WHAT KIND OF CONTENT CAN BE DOWNLOADED?

- R-Car Software Environment Release Information: Renesas release Linux® Software and Android™ Software including BSP, GFX and Codecs.

The screenshot shows a web page titled "R-Car Software Environment Release Information". At the top, there are two tabs: "Linux Software" and "Android Software". Below the tabs is a table of software releases. The "Linux Software" table has three rows, and the "Android Software" table has one row. Each row in the tables includes columns for Title, Description, Created, Note, and Link. The "Link" column contains a "Download" button for each entry. There are also "Back To Top" buttons at the bottom of each table.

Title	Description	Created	Note	Link
Linux Base package	R-car Gen3 Linux SW and Multimedia library (Yocto v3.21.0)	Oct 2020	-	Download
Linux I/VI option	Optional video and audio codecs for I/VI application (Yocto v3.21.0)	Oct 2020	Download and use of this software is subject to the terms of the Renesas Software License Agreement accepted at registration.	Download
Update Guide	Guide for updating Yocto v3.21.0 to the latest version	Oct 2020	-	Download

Title	Description	Created	Note	Link
Android Base package and I/VI option	Android 9 package for R-Car Gen3 (v5.3.0)	Oct 2020	Download and use of this software is subject to the terms of the Renesas Software License Agreement accepted at registration.	Download

User can jump to the beginning of Linux® Software and Android™ Software using tab function

Linux® Software is located, and user can download SW from each link.

Android™ Software is located, and user can download SW from each link.

2-3.WHAT KIND OF CONTENT CAN BE DOWNLOADED?

- Documentation: Renesas provide various documents from this page, currently Device manual, Technical update and Board manual are available.

The screenshot shows a web page with a navigation menu on the left and a main content area. The main content area has three sections: 'Device manual', 'Technical update', and 'System evaluation board manuals'. Each section contains a table of documents with columns for Title, Description, Created, and Link. Callout boxes with arrows point to specific elements: 'Device Manual', 'Technical Update', and 'Board Manual' buttons at the top; the 'Device manual' table; the 'Technical update' table; and the 'System evaluation board manuals' table.

Market Place

- Reference Designs
- R-Car Software Environment Release Information
- Documentation**
- Proactive Partner Solution Video
- Events
- R-Car Educational Program
- Solution Matching System (External Link)
- Engineering Community
- Contact

Documentation

The documents listed here are subject to Renesas NDA, please handle them carefully.

Device manual

Title	Description	Created	Link
Device manual and errata for 3rd-Generation R-Car Products	R-Car Gen3 Common User Manual 2.20	Jun 2020	Download

[Back To Top](#)

Technical update

Title	Description	Created	Link
Technical Updates for 3rd-Generation R-Car Products	R-Car Gen3 Technical Update for Rev.2.20 (0915)	Sep 2020	Download

[Back To Top](#)

System evaluation board manuals

Title	Description	Created	Link
Salvator-XS Common document for R-Car H3 / M3 / M3N	Manual	Oct 2020	Download
	Reference software	Oct 2020	Download
	Other related documents	Oct 2020	Download

User can jump to the beginning of each document.

Device manual is located and user can download from link.

Technical update is located and user can download from link.

System evaluation board manuals is located and user can download from link.

2-4.WHAT KIND OF CONTENT CAN BE DOWNLOADED?

- 2020 Proactive Partner Solution Video: Proactive partner provide solution introduction video, also inquiries about each solution can be sent directly by the user to the listed address.

The screenshot shows a web page titled "2020 Proactive Partner Solution Video". On the left is a navigation menu with "Market Place" selected, and "Proactive Partner Solution Video" highlighted. The main content area includes a text block explaining the page lists 2020 Proactive Partner solution videos, a note about alphabetical ordering, and two video entries. Each entry has a video player, a table with details, and a "Questionnaire" link. Three callout boxes with yellow arrows point to specific elements: the first points to a video player, the second to the "Contact" field, and the third to the "Other Link" field.

Market Place

- Reference Designs
- R-Car Software Environment Release Information
- Documentation
- Proactive Partner Solution Video**
- Events
- R-Car Educational Program
- Solution Matching System (External Link)
- Engineering Community
- Contact

2020 Proactive Partner Solution Video

This page lists 2020 Proactive Partner solution video. If you want to get more information, please access each partner's contact form/address or other link.

Note: These videos are presented in alphabetical order by partner company name.

	Name	AUBASS CO., LTD. / eSOL Co., Ltd.
	Title	AUBIST Hypervisor - 1.What is a hypervisor? -
	Overview	Hypervisor and technical element required for implementation
	Contact	AUBASS / eSOL
	Other Link	Questionnaire for this presentation

	Name	AUBASS CO., LTD. / eSOL Co., Ltd.
	Title	AUBIST Hypervisor - 2.Introduction of AUBIST -
	Overview	Introducing 2 types of hypervisor solutions offered by AUBASS
	Contact	AUBASS / eSOL

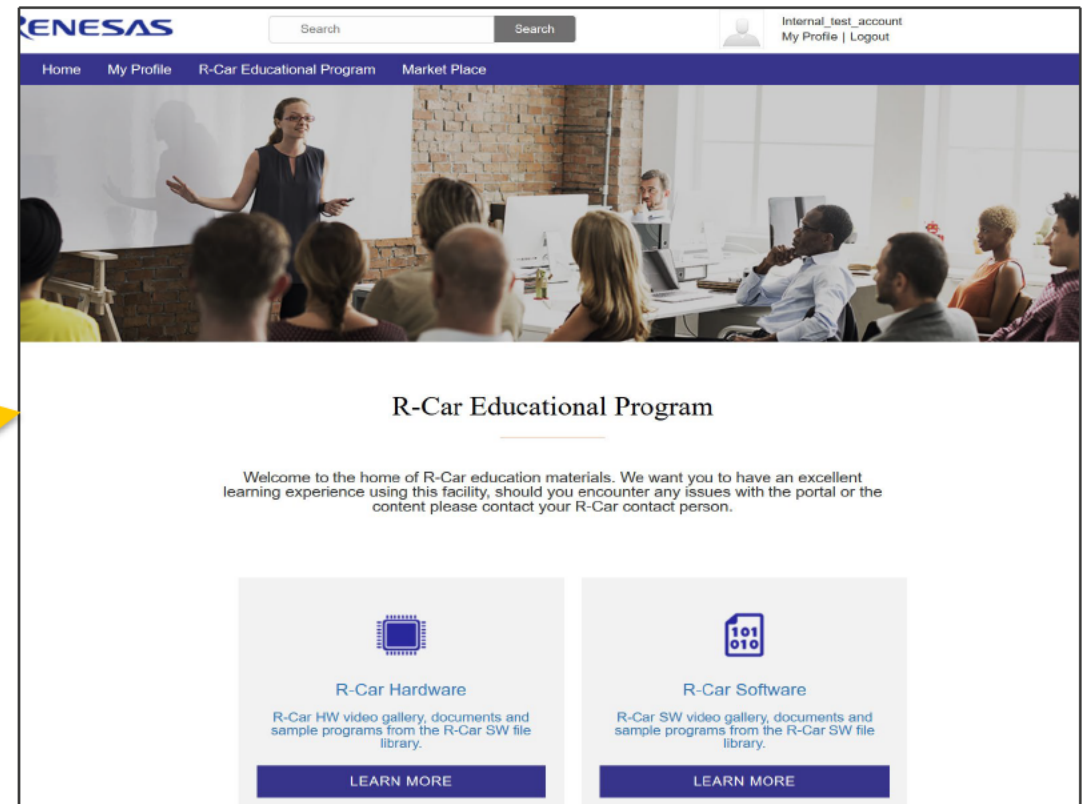
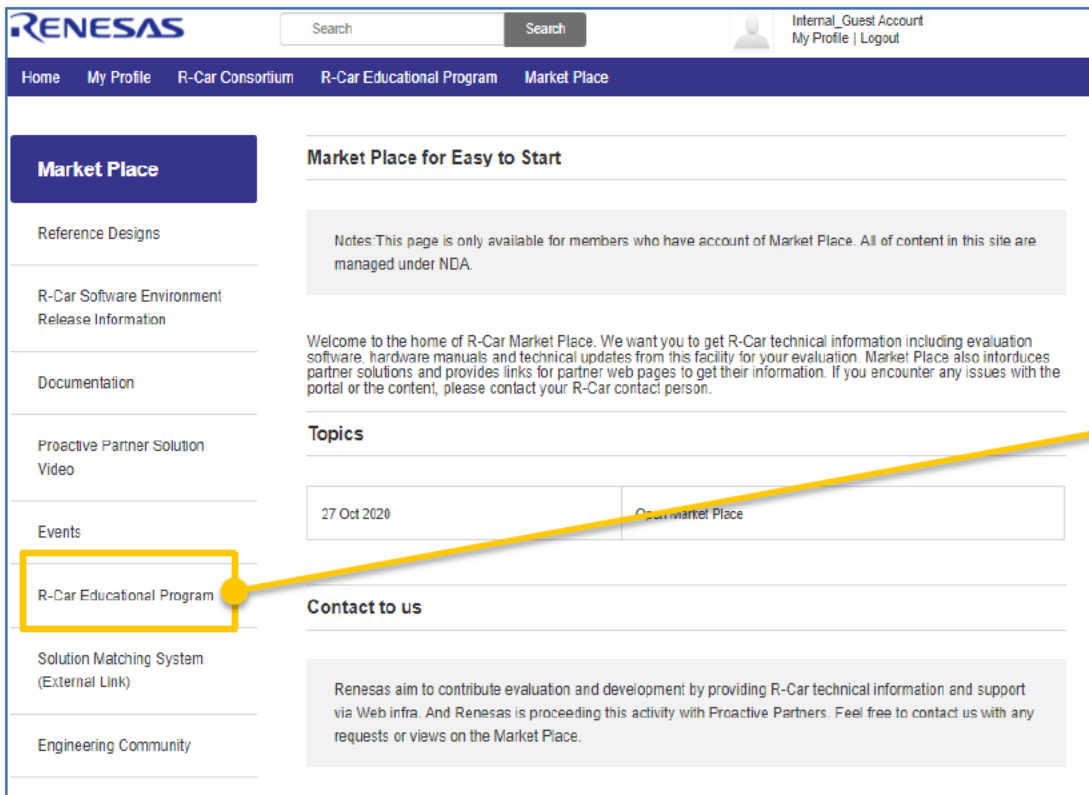
Video content
Click the play button to start the video.

User can contact to each partner member directly.

Proactive Partner provide links of their solution for introducing more information

3-1.HOW TO LEARN R-CAR TECHNICAL KNOWLEDGE

- Educational program entrance: Educational Program menu is available in the side navigation of Market Place. Access the Educational Program with just one click.



3-2.HOW TO LEARN R-CAR TECHNICAL KNOWLEDGE

- Educational program content: Educational Program has video content and document for HW and SW. The Video content adds narration that details the content of the technical documentation. In the document area, user can download Application Note.

Video content

R-Car Educational Program

Software

Hardware

HW Videos


HW Documents

Inquiries (R-Car Educational Program)

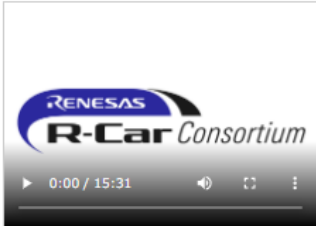
R-Car Hardware Video

Welcome to the R-Car HW learning video page. You can access on demand videos providing technical detail on Renesas R-Car software. Click on any thumbnail below to watch the video.

Remember to check back regularly as new video content will be published frequently!



DRAM IF
Introduction of R-Car Gen3 DRAM Interface Design



Power Domain Design
Introduction of R-Car Gen3 Power Domain Design

Document

R-Car Educational Program

Software

Hardware

HW Videos

HW Documents

Inquiries (R-Car Educational Program)

Document Title	Document Description
Board Circuit Design Check List	This document summarizes the knowledge gained from board design by Renesas Electronics, provides specific design examples, and provides a checklist for designing circuits with third-generation R-Car series products, including peripheral components.
DRAM Backup	This application note explains how to use the function of third-generation R-Car series products for the contents of connected DRAM back up (mainly intended for use with LPDDR4 SDRAM).
DRAM Refresh Rate Setting	This application note describes the DRAM refresh rate setting for third generation R-Car series product.
DRAM Sample Program README	READ ME text file for R-Car Sample Programs
DRAM Sample Program R-Car D3	Sample program of DRAM refresh rate setting for R-Car D3
DRAM Sample Program R-Car E3	Sample program of DRAM refresh rate setting for R-Car E3
DRAM Sample Program R-Car	Sample program of DRAM refresh rate setting for R-Car Gen3 with LPDDR4

4.HOW TO DISCUSS COMMUNITY MEMBERS

- As for R-Car ecosystem forum, there are major two web site which are eLinux and Renesas Rulz. Renesas will build a mechanism for these two websites to work together and propose it as an R-Car Engineering community.
- Community member can buy HW in market, and SW(*some restriction version) can download via eLinux site. Community members are using these HWs and SWs to evaluate R-Car.
- Market Place user can join this community and discuss own issue and question, also get the Information available from the FAQ site on eLinux, which is updated day by day.
- Renesas blog about engineering community
 - <https://www.renesas.com/us/en/blogs/customer-value-automotive-business-series-2-r-car-s-engineering-community-website-now-open>

APPENDIX

PROMOTION CONTENT

- Press release

- <https://www.renesas.com/us/en/about/press-room/renesas-shifts-mobility-system-development-high-gear-its-new-online-market-place-r-car-soc>

- Renesas blog

- <https://www.renesas.com/us/en/blogs/customer-value-automotive-business-series-2-r-car-s-engineering-community-website-now-open>
 - Proactive Partner 2020(*Market Place)

CONTACT

- Contact person

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