

RZ/A1 Microsoft Azure SDK

Smart Pin Configurator

EU_00xxx
Rev.1.00
May 5, 2021

Introduction

This describes how to use the RZA1 Smart Configurator to generate pin configurations.

Target Device

RZ/A1

Software Requirements

The SDK contains python scripts to generate the code. Below are the required software to run the script.

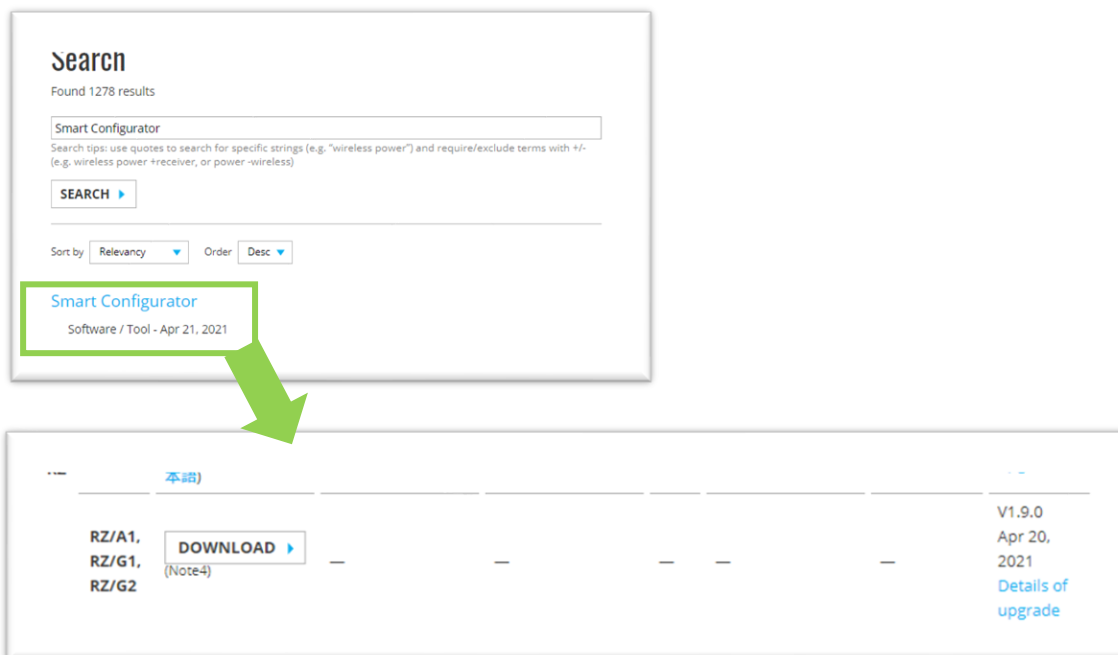
- Python v3.6
- RZA1Smart Configurator (NOTE: This is not the same as the RZA2M Smart Configurator)

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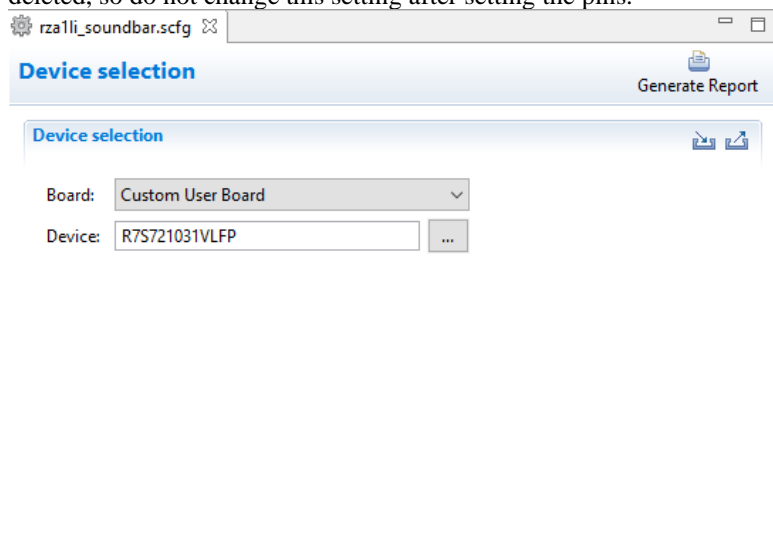
1. Install Smart Configurator

To download RZA1 Smart Configurator go to [Renesas](#) in the search bar search for Smart Configurator. Select the Smart Configurator.



2. Usage

1. Open one of the existing Smart Configurations. For the RZA1 M or H select the Display-it configuration. For RZA1 LU, LC, or L select the one of the Stream-it configurations. Because the Stream-it PCB maps the LCD and ethernet to the same pints, two configurations for the Stream-it are provided. One for LCD display and one for the Ethernet.
 - rza1h_Displayit.scfg
 - rza1lu_Streamit.scfg
 - rza1lu_Streamit_Ethernet.scfg
2. The default view is the board view. Select the Device. Once the Device is selected pin setting may be deleted, so do not change this setting after setting the pins.



3. Open the Pin View
4. Select the peripheral from the Hardware Resource panel.
 - a. In the Pin Function panel check the pin.
 - b. In the Assignment pane select the port pin from the list. Once the conflict is resolved, the pin will be assigned to the selected peripheral.

Enabled	Function	Assignment	Pin No.
<input type="checkbox"/>	MISO0	Not assigned	Not assigned
<input type="checkbox"/>	MOSI0	Not assigned	Not assigned
<input type="checkbox"/>	RSPCK0	Not assigned	Not assigned
<input type="checkbox"/>	SSL00	Not assigned	Not assigned


4b

The screenshot shows the 'Pin configuration' window with two main panels: 'Hardware Resource' and 'Pin Function'.

Hardware Resource Panel: A tree view on the left lists various hardware resources. The 'Renesas serial peripheral interface' is expanded, showing 'RSPI0', 'RSPI1', and 'RSPI2'. 'RSPI0' is selected, and a red box highlights its assignment: 'P2_12/DV0, DATA8/SSCK1/RSPCK0/LCD0, DATA11/VIO_D8'. A blue box labeled '4b' is also present.

Pin Function Panel: A table on the right lists pins (A0 to AN1) and their functions. Pin A7 is selected, and its function is 'P7_15/A7/RSPCK0/ET_RXCLK/CTS54/SCI_TXD0/TIOC4D'. A blue box labeled '4a' is also present.

5. Generate code.

- a. In the Pin View -> Pin Function View press the export pin assignment button .

- b. Select one of the following files.

- c. Execute the windows batch file SC_Code_Generator.bat.

- d. Select the board.

- e. The Port Pin Code is Generated here

rz_bsp\src\renesas\drivers\r_gpio\inc\ . For RZA1H or M the r_rza1h_port_sc_cfg.h is generated all others are r_rza1l_port_sc_cfg.h.

```
Please select one of the following options:
```

```
1 - RZA1H Displayit (RSK)
2 - RZA1LU Streamit
3 - RZA1LU Streamit Ethernet (no Display)
```

```
x - Exit
```

```
Your choice: _
```

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Revision Record

[illegible]