

Contents List of RX65N Envision Kit Firmware

Demo Firmware

By writing this firmware to a USB memory stick, you can rewrite the firmware on the board during a demo.

| Documentation and demo software | Description |
|--|---|
| Standard Firmware | Download the latest versions of four types of demo firmware (2D Drawing Engine, Bouncing Balls, Mandelbrot Calculation, and Firmware Bank Swap Demo). |
| Benchmark Firmware | Download demo firmware for benchmarking (dual bank rewriting image, storage benchmark, and system log). |
| Documentation and so on can be downloaded below. | (Download Link) |
| Documentation and demo software | Description |
| Demo firmware (source code) | Download the latest versions of four types of demo software (2D Drawing Engine, Bouncing Balls, Mandelbrot Calculation, and Firmware Bank Swap Demo). |
| User's manual (instruction manual) | Download the instruction manual for this kit. |
| Circuit diagram and bill of materials | Download the circuit diagram and bill of materials for this kit. |
| Declaration of conformity for CE logo | Declaration of conformity for the CE logo for Europe. |
| Declaration of conformity for China | Declaration of conformity for China. |

| name on website | download filename | contents | Description |
|----------------------------|-----------------------|--|--|
| Standard Firmware | standard.zip | std.rsu stdxxx.rsu | initial updata(xxx=version) |
| Benchmark Firmware | benchmark.zip | bench.rsu benchxxx.rsu | initial updata(xxx=version) |
| name on website | download filename | contents | description |
| Demo firmware(source code) | rx65n_envisionkit.zip | rx65n_secure_boot standard benchmark convert.exe rx65n_envisionkit_demo_readme.txt | boot loader project standard demo project benchmark demo project mot file converter readme |

Quick Start to Update



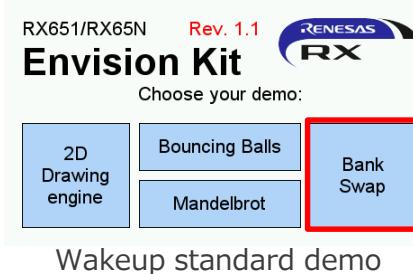
power on reset



Boot loader initial message

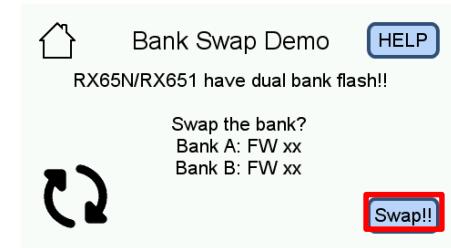
(primary bank)

wait



Wakeup standard demo

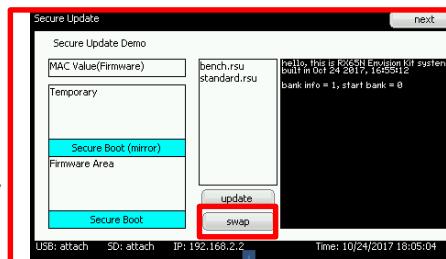
push bank swap



swap bank and software reset



touch display



swap bank and software reset

How to Update:

You can choose update data from file list.
The file list comes from *.rsu file in
your USB memory.
You can update other bank of demo.
Please select benchxxx.rsu or stdxxx.rsu
and push update button.



Renesas website
RX65N Envision Kit page

Please refer to this data flow if you need customization for demo, confirm behavior of demo, etc.

Data flow of firmware installation

Demo firmware
(source code)



import
3 folders
rx65n_secure_boot,
standard,
benchmark,
in rx65n_envisionkit.zip



build



Boot loader
(rx65n_secure_boot.mot)

download with
SW1-1 **on** and
SW1-2 off and
SW4-1 off and
SW4-2 don't care.



power on reset with
SW1-1 **off** and
SW1-2 off and
SW4-1 off and
SW4-2 don't care.



Boot loader initial message

build



Standard Firmware
(RX65N_EnvisionKit.mot)

tool
convert.exe

bin

Standard Firmware for envision kit boot loader
(rename from userprog.rsu to std.rsu)

build

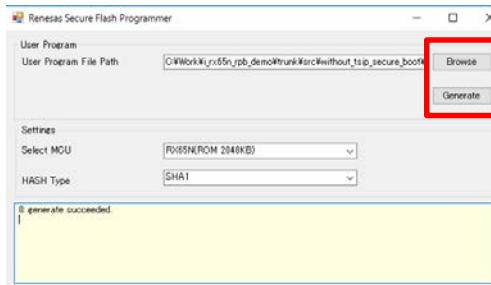


Benchmark Firmware
(rx65n_envision_kit_demo.mot)

tool
convert.exe

bin

Benchmark Firmware for envision kit boot loader
(rename from userprog.rsu to bench.rsu)



Convert from *.mot to *.rsu.

Data flow of firmware installation

