

Thank you for using the Smart Configurator for RH850.

This document describes the restrictions and points for caution. Read this document before using the product.

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Chapter 1. Introduction

The Smart Configurator for RH850 is a software tool to generate control programs (device driver programs) for peripheral modules (timers, UART, A/D, etc.). It generates device driver codes using user settings through GUI. Initialize code and API (Application Programming Interface) functions are provided.

Chapter 2. Target Devices

Below is a list of devices supported by the Smart Configurator for RH850 V1.0.0.

RH850/F1KM-S1Group	
PIN	Device name
48pin	R7F701693, R7F701694, R7F701695
64pin	R7F701690, R7F701691, R7F701692
80pin	R7F701687, R7F701688, R7F701689
100pin	R7F701684, R7F701685, R7F701686
RH850/F1KM-S4 Group	
PIN	Device name
100pin	R7F701644, R7F701645
144pin	R7F701646, R7F701647
176pin	R7F701648, R7F701649
232pin	R7F701650, R7F701651
272pin	R7F701652, R7F701653
following documents	
Manual name	Document Number
RH850/F1KM User's Manual: Hardware	R01UH0684EJ0050

Chapter 3. Operating Environment

▪ Host machine

- IBM PC/AT compatibles (Windows® 10, Windows® 8.1, Windows® 7)
- Processor: 1 GHz or higher (must support hyper-threading, multi-core CPUs)
- Memory capacity: 2 GB or more recommended. Minimum requirement is 1 GB or more (64-bit Windows requires 2 GB or more)
- Hard disk capacity: 200 MB or more spare capacity
- Display: 1024 x 768 or higher resolution, 65,536 or more colors
- All other necessary software environments in addition to Windows OS
 - .NET Framework version4.5

▪ Development Environments

Product Name	Version
Renesas CC-RH	V1.07 or later
GHS Multi®	V6.1.6 or later

Chapter 4. Points for Caution

This section describes points for caution regarding the Smart Configurator for RH850 V1.0.0.

4.1 List of Caution

No.	Description	version *1	
		RH850/F1KM-S1 V1.0.0	RH850/F1KM-S4 V1.0.0
1	The function which isn't supported	○	○
2	About the I/O define header file	○	○

○: Applicable, /: Not Applicable

Note 1: Version is described in the generated code.

4.2 Details of Caution

4.2.1 The function which isn't supported

Smart Configurator for RH850 is not supporting following function.

- Exception/Interrupts

Support Table referencing method, not support Direct branching method.

No support INTC1

No support FE level maskable interrupt

- DMA Controller

- Reset Controller

- Power Supply Circuit

- Supply Voltage Monitor

- Clock Controller

Register setting of Clock is set in startup file which shared from our sales representative.

- Clock Monitor (CLMA)

- Stand-By Controller (STBC)

No support Cyclic RUN mode and Cyclic STOP mode.

No support Wake up processing.

- Low-Power Sampler (LPS)

- External Memory Access Controller (MEMC)

- Serial Flash Memory Interface A (SFMA)

- LIN Master Interface (RLIN2)

- I2C Bus Interface (RIIC)

- CANFD Interface (RS-CANFD)

- FlexRay (FLXA)

- Ethernet AVB (ETNB)

- Single Edge Nibble Transmission (RSENT)

- Clock Extension Peripheral Interface (CXPI)

- Real-Time Clock (RTCA)

- Encoder Timer (ENCA)

- Motor Control

- PWM Output/Diagnostic (PWM-Diag)

- Key Return (KR)

- Functional Safety

- Data CRC (DCRA)

- Security Function

- On-Chip Debug Unit (OCD)

- Flash Memory

- RAM

- Boundary Scan

4.2.2 About the I/O define header file

Please use Renesas iodef.h for the header file that defines the register. Because RH850 Smart Configurator V1.0.0 outputs code conforming to the definition in Renesas iodef.h, a build error occurs when using other environments.

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