

# MS2LA6F-64H Users Guide

Suisei Electronics System Co., Ltd  
2<sup>nd</sup> Edition Issued 2011

## 1. General Description

MS2LA6F-64H is a writing target board for serial I/O mode used by connecting to EFP-S2/S2V or EFP-RC.

Reading and writing data to R8C/36C and LA6A groups with built-in Renesas Electronics 16 bit Flash memory are enabled by using MS2LA6F-64H.

IC socket for 64-pin 0.5mm pitch QFP (plqp0064kb-a) (64P6q-A) is mounted on MS2LA6F-64H.

<Packing contents>

- 1) MS2LA6F-64H
- 2) Users guide (this manual)

External Figure of MS2LA6F-64H is shown in Fig 1.1

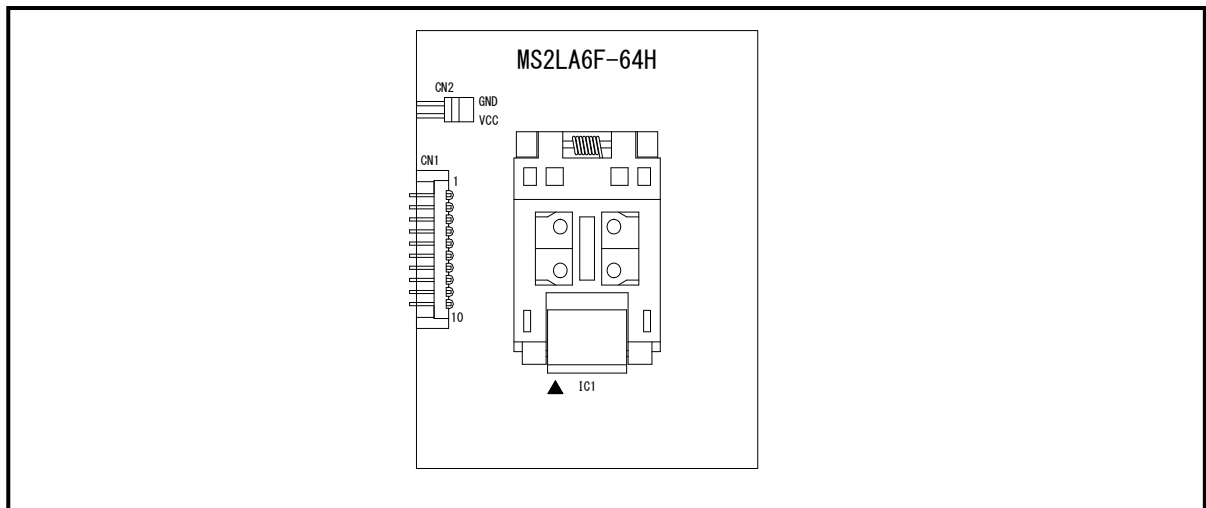


Fig.1.1 MS2LA6F-64H External Figure

## 2. Connection Process

In case MS3039-100G is used, please connect EF1TGCB-01U of EF1SRP-01US2 to EF1TGCB-B (4-wire target connection cable) as shown in Fig.2.1.

Please connect the power cable of the attachment with J2 of MS2LA6F-64H.

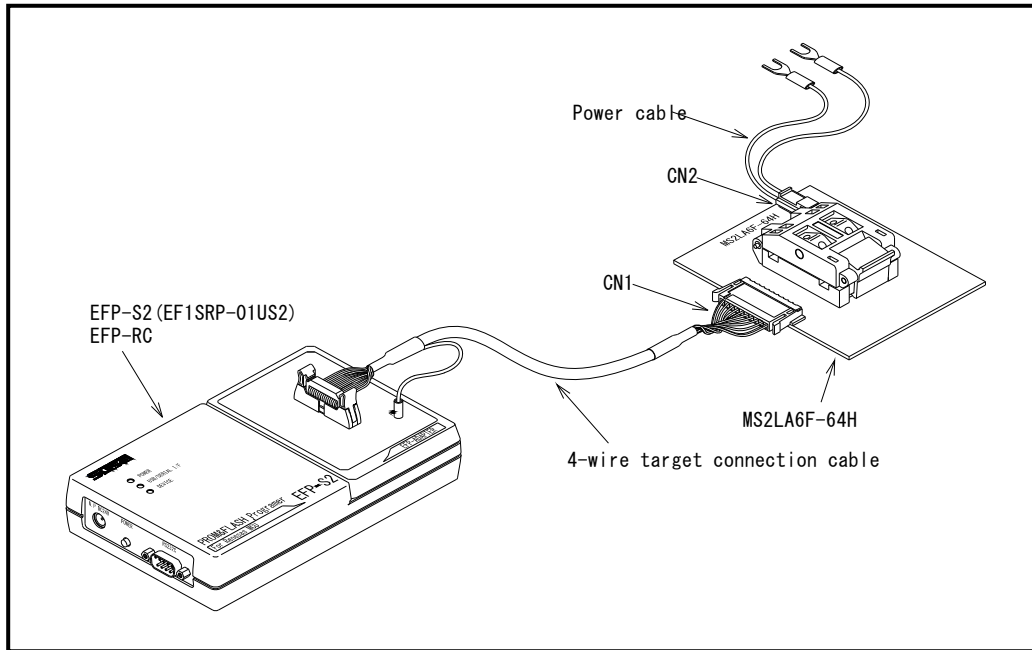


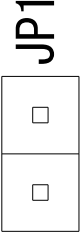
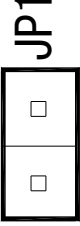
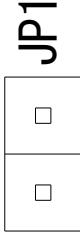
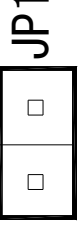
Fig.2.1 Connection of MS2LA6F-64H

### 3. List of Corresponding MCU and corresponding version

#### 3. 1 List of Corresponding MCU

A corresponding MCU list of MS3039-100G is shown in List.1.1.

List.1.1 List of Corresponding MCU of MS4238-20F

Main Body	Device Type	Corresponding MCU name	Program Memory Area	Setting of JP switch
EFP-S2/S2V	R5F213x8(1 line type,64K+4K)	R5F21368CNFP	3000h~3FFFh 4000h~13FFFh	※1 
	R5F213xA(1 line type,96K+4K)	R5F2136ACNFP	3000h~3FFFh 4000h~1BFFFh	
	R5F213xC(1 line type,128K+4K)	R5F2136CCNFP	3000h~3FFFh 4000h~23FFFh	
	R5F2LAx4(1 line type,16K+2K)	R5F2LA64ANFP	3000h~37FFh C000h~FFFFh	
	R5F2LAx6(1 line type,32K+2K)	R5F2LA66ANFP	3000h~37FFh 8000h~FFFFh	
	R5F2LAx7(1 line type,48K+2K)	R5F2LA67ANFP	3000h~37FFh 4000h~FFFFh	
	R5F2LAx8(1 line type,64K+2K)	R5F2LA68ANFP	3000h~37FFh 4000h~13FFFh	
EFP-RC	R8C/3x,Lx(Type2)	R5F21368CNFP	3000h~3FFFh 4000h~13FFFh	
		R5F2136ACNFP	3000h~3FFFh 4000h~1BFFFh	
		R5F2136CCNFP	3000h~3FFFh 4000h~23FFFh	
	R8C/Lx-SLP	R5F2LA64ANFP	3000h~37FFh C000h~FFFFh	
		R5F2LA66ANFP	3000h~37FFh 8000h~FFFFh	
		R5F2LA67ANFP	3000h~37FFh 4000h~FFFFh	
		R5F2LA68ANFP	3000h~37FFh 4000h~13FFFh	

\* 1 Please do not use the contact pin when you use R8C/36C.

\* 2 Please mount the contact pin when you use R8C/LA6A.

3. 2 About Software version (S/W)

The version numbers such as EFP-1 and WinEFP are displayed by [Help] → [About] in the WinEFP window menu. Please download the latest version up data on the following site.

< EFP- I S/W the latest free download site >

[http://www.suisei.co.jp/download\\_e/productdata\\_efp1\\_e.html](http://www.suisei.co.jp/download_e/productdata_efp1_e.html)

< EFP-S2 S/W the latest free download site >

[http://www.suisei.co.jp/download\\_e/productdata\\_s2\\_e.html](http://www.suisei.co.jp/download_e/productdata_s2_e.html)

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[http://www.suisei.co.jp/download\\_e/productdata\\_s2\\_e.html](http://www.suisei.co.jp/download_e/productdata_s2_e.html)

**Note on Corresponding Versions**

Above corresponding versions might change without notice on account of the future capability improvement, etc. Furthermore in case the upgrade procedure manual is attached when this product is purchased, please refer to that manual as a priority.

#### 4 . Insertion Direction of MCU and cleaning of IC socket

##### 4. 1 Insertion Direction of MCU

When MCU is inserted, No.1 pin of the IC socket on MS2LA6F-64H and MCU's No.1 pin should be connected. The wrong insertion would cause a serious breakage of MCU.

Insertion direction of MCU is shown in Fig 4.1.

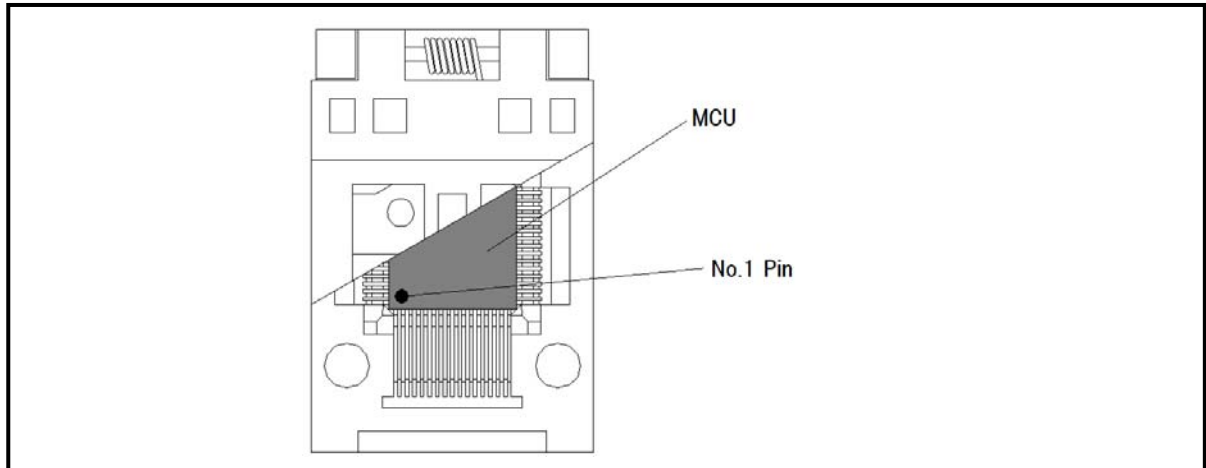


Fig 4.1 Insertion Direction of MCU

##### 4. 2 Cleaning of IC Socket

A contact pin inside of the IC socket of the MCU unit might deteriorate and a contact failure might occur because of the number of times used and its age of service. As the contact failure may cause incorrect writing of MCU and malfunction of the writer, please take the below measures.

#### **Measures against IC Socket Contact Failure**

- (i) Please clean the contact pin surface inside of IC socket with a brush, etc. regularly, depending on the number of times used.
- (ii) If the product is not to be used for a long period, please keep it with less humidity in a plastic bag, etc.

Though enquiries on contact failures can be made, we regard IC sockets as consumable supplies. We may recommend you to replace them if a contact failure of IC socket occurs due to its use deterioration.

#### **【Recommended item for cleaning】**

About the cleaning of the contact pin in the IC socket, we recommend the use of the nanotech brush (Kita Mfg Co., Ltd).

The nanotech brush can remove the dirt which stuck to a contact pin, a very small amount of metastasis of solder. When a contact poor problem occurred, please try it.

About nanotech brush, please ask us or Kita Mfg Co., Ltd (refer to the following site).

Nanotech brush (Kita Mfg Co., Ltd.) [http://www.kita-mfg.com/pro\\_nanotech\\_e.html](http://www.kita-mfg.com/pro_nanotech_e.html)

## 5. List of Pin Connection

CN2 Connector terminal names of MS2LA6F-64H are shown in List 5.1.

CN3 Connector terminal names of MS2LA6F-64H are shown in List 5.1.

Table 5.1 CN2 connector connection terminal table

Pin No.	Terminal Name	PIN No.	Terminal Name
1	VCC	2	GND

Table 6.1 CN3 connector connection terminal table

Pin No.	Terminal Name	PIN No.	Terminal Name
1	GND	6	SCLK
2	RXD	7	TXD
3	BUSY	8	PGM/OE
4	VPP	9	RESET
5	VDD	10	GND

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