

MS2133F-32F Users Guide

Susei Electronics System Co., Ltd
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1. General Description

MS2133F-32F is a writing target board for serial I/O mode used by connecting to EFP-RC.

Reading and writing data to R8C/2A and R8C/26 and R8C/33T groups with built-in Renesas Electronics 16 bit Flash memory are enabled by using MS2133F-32F.

IC socket for 32pin 0.8mm pitch LQFP (PLQP0032GB-A) (32P6U-A) is mounted on MS2133F-32F.

< Packing contents >

- 1) MS2133F-32F
- 2) Users guide (this manual)

External Figure of MS2133F-32F is shown in Fig 1.1

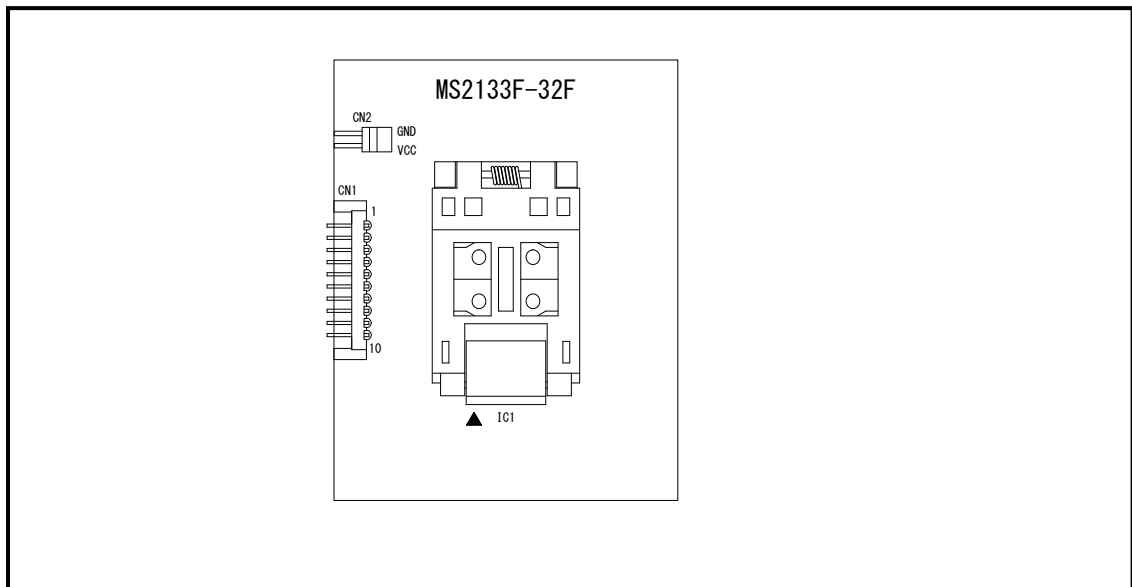


Fig.1.1 MS2133F-32F External Figure

2. Connection Process

In case MS2133F-32F is used, please connect EF1TGCB-B (4-wire target connection cable) and power supply cable as shown in Fig.2.1.

Please connect the target connection cable in CN1 as shown in Figure 2.1 and connect the power cable with CN2.

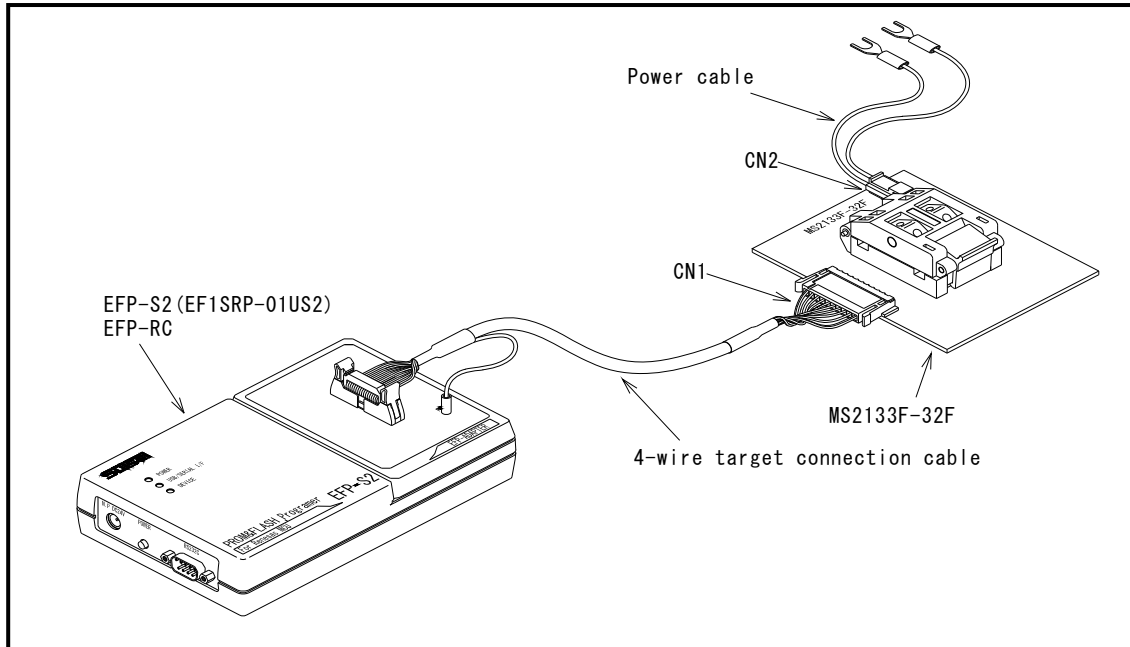


Fig.2.1 Connection of MS2133F-32F

3. List of Corresponding MCU and corresponding version

3. 1 List of Corresponding MCU

A corresponding MCU list of MS2133-32F is shown in List.3.1.

List.3.1 List of Corresponding MCU of MS2133F-32F

| Main body | Device type | Corresponding MCU name | Program memory area | Switch setting of JP | |
|--------------|------------------------------|------------------------|----------------------------|----------------------------|--|
| EFP-S2/S2V | R5F213x4(1 line type,16K+4K) | R5F21334TNFP | 3000h~3FFFh C000h~FFFFh | | |
| | R5F213x5(1 line type,24K+4K) | R5F21335TNFP | 3000h~3FFFh A000h~FFFFh | | |
| | R5F213x6(1 line type,32K+4K) | R5F21336TNFP | 3000h~3FFFh 8000h~FFFFh | | |
| | EFP-RC | R8C/3x,Lx(Type2) | R5F21334TNFP | 3000h~3FFFh C000h~FFFFh | |
| | | | R5F21335TNFP | 3000h~3FFFh A000h~FFFFh | |
| | | | R5F21336TNFP | 3000h~3FFFh 8000h~FFFFh | |
| | | R8C/2x (Type1) | R5F21272SNFP | 2400h~2BFFh E000h~FFFFh | |
| R5F21274SNFP | 2400h~2BFFh C000h~FFFFh | | | | |
| R5F21275SNFP | 2400h~2BFFh A000h~FFFFh | | | | |
| R5F21276SNFP | 2400h~2BFFh 8000h~FFFFh | | | | |

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

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

http://www.suisei.co.jp/download_e/productdata_s2_e.html

< EFP-S2V S/W the latest free download site >

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 MS2133F-32F 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.

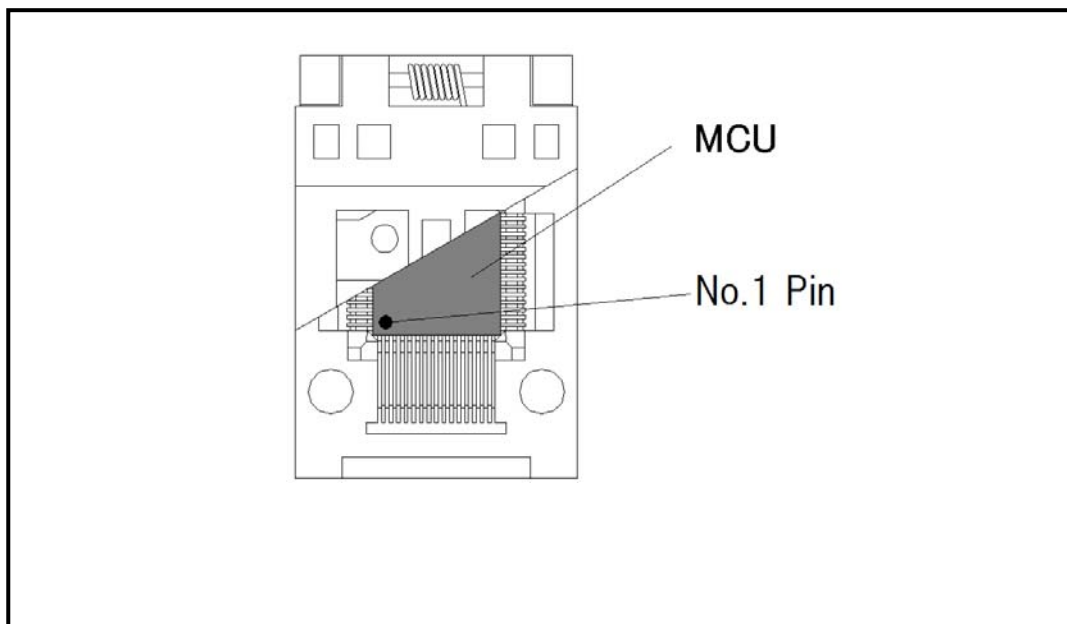


Fig 4.1 Insertion Direction of MCU

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

5. List of Pin Connection

CN2 Connector terminal names of MS2133F-32F are shown in List 5.1.

CN3 Connector terminal names of MS2133F-32F are shown in List 5.2.

Table 5.1 CN2 connector connection terminal table

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

Table 5.2 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 |