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3803H/3803L/3804L Group WG Package IC Socket Board R0K33803HZ030BR

Release Note, 1.01 Edition

Renesas Solutions Corp. Dec 01, 2006

Thank you for purchasing the 3803H/3803L/3804L Group IC socket board (R0K33803HZ030BR). This release note explains how to use. Please be sure to read it before using your IC socket board.

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1. Preface

This release note describes precautions and how to use the hardware included in the R0K33803HZ030BR.

2. Precautions (Be sure to read)

[Remove MCU]

When removing a microcomputer from the IC socket, in use of the IC socket board (R0K33803HZ030BR), Please remove the MCU after turning the power OFF.

[Connect E8]

Please connect the communication connector of E8 to CN1 of the IC socket board (R0K33803HZ030BR). Do not connect E8 to CN2 of the IC socket board. When connecting E8 to CN2 and using the IC socket board, the microcomputer and E8 may be damaged.

[Potential Meter]

Do not turn the volume (VR1) of the IC socket board (R0K33803HZ030BR). When turning the volume (VR1), and then using the IC socket board, programming to QzROM may not be performed properly. Also, the MCU may be damaged.

3. Product Overview

The 3803H/3803L/3804L Group IC socket board (R0K33803HZ030BR) is an IC socket board for programming to QzROM/FLASH with Flash Development tool Kit (FDT) and E8.

[Applicable Microcomputer]

3803H Group 64-Pin Version QzROM Microcomputer (Package :PTLG0064JA-A(64F0G)) 3803L Group 64-Pin Version FLASH Microcomputer (Package : PTLG0064JA-A(64F0G)) 3804L Group 64-Pin Version FLASH Microcomputer (Package : PTLG0064JA-A(64F0G))

[Applicable Flash Writers]

(1) Renesas Technology Corp.

· Flash Development tool Kit (FDT)

URL:

http://www.renesas.com/fmwk.jsp?cnt=flash_development_toolkit_mid_level_landing.jsp&fp=/product s/tools/flash_prom_programming/flash_development_toolkit/

· E8 (R0E000080KCE00)

URL:

http://www.renesas.com/fmwk.jsp?cnt=e8_tools_product_landing.jsp&fp=/products/tools/emulation_d ebugging/onchip_debuggers/e8/&site=i

4. Product Specifications

Table 4-1 lists the Specifications of the IC socket board.

Table 4-1 Specifications			
Item		R0K33803HZ030BR	
Operating Voltage	E8	3.3[V]±10%	
		5.0[V]±10%	
	User Power Supply	2.7 to 5.5[V]	
E8 power supply	3.3V±10%	<when external="" for="" generation="" is="" not="" power="" used="" vpp=""></when>	
capability		Max. 50[mA]	
		<when external="" for="" generation="" is="" power="" used="" vpp=""></when>	
		Max. 300[mA]	
	5.0V±10%	<when external="" for="" generation="" is="" not="" power="" used="" vpp=""></when>	
		Max. 250[mA]	
		<when external="" for="" generation="" is="" power="" used="" vpp=""></when>	
		Max. 300[mA]	
User Power Supply	3.3V±10%	<when external="" for="" generation="" is="" not="" power="" used="" vpp=""></when>	
Current Consumption		Max. 250[mA]	
		When external power for VPP generation is used>	
	5 0) (. 100 (Max.10[mA]	
	5.0V±10%	<when external="" for="" generation="" is="" not="" power="" used="" vpp=""></when>	
		Max. 50[mA]	
		<when external="" for="" generation="" is="" power="" used="" vpp=""> Max. 10[mA]</when>	
Power supply		9.0 to 12.0[V]	
Power supply for VPP generation	Supply Voltage		
	Current Consumption	Max. 250[mA]	
Operating Environment	Operating Ambient	25±5[°C]	
	Temperature		
	Humidity	No dew drops allowed	

5. Package Information

Table 5-1 lists the Package Information of IC socket board.

Table 5-1 Package Information

Product Name	Quantity	Remark
IC Socket Board (R0K33803HZ030BR)	1 pc	
Release Note	1 copy	In Japanese and English
User cable	1.pc	

6. IC Socket Board (R0K33803HZ030BR)

6.1. External Specifications

Table 6-1 lists the External Specifications of IC socket board.

Table 6-1 External Specifications			
Item	Description	Remark	
Connector	[CN1] : Communication connector for connecting to E8	14-Pin Connector	
	[CN2] : Communication connector for connecting to user board	14-Pin Connector	
	[CN3] : Power supply connector for VPP power generation		
IC Socket	[IC4] : IC socket for PTLG0064JA-A(64F0G)		
Oscillator	[X1] : 4MHz		
Jumper	[JP1] : Select Vcc power supply		

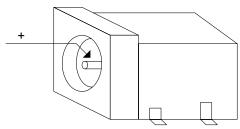
6.2. External Power Supply Specifications

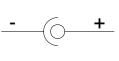
1) Power supply connector (CN3) for VPP power generation

The power supply connector (CN3) for VPP power generation is provided for the IC socket board. Normally, the power is provided from E8 or the user board.

When drive capability of the power is not enough, external power for VPP generation of the IC socket board can be provided from the power connector.

The input voltage range of the external power for VPP power generation is 9.0 to 12.0V.





Positive is center.

Figure 6.1 Power Supply for VPP power generation

6.3. Jumper Specifications

1) JP1

JP1 is used for selecting Vcc. Figure 6-2 lists the JP1 Setting.

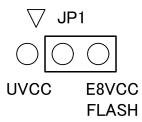


Figure 6-2 JP1 Setting

2)JP3

JP3 is used for selecting MCU type(QzROM/FLASH). Table 6-2 lists the JP3 Setting. Set JP3 according to your MCU type.

Table 6-2 JP3 Setting

Jumper Setting	Description	Remark
FLASH	The MCU type is FLASH.	
QzROM	The MCU type is QzROM.	

6.4. Connector Specifications

1) CN1 : 14-pin connector for connection E8 Table 6-3 lists the CN1 Pin Assignment.

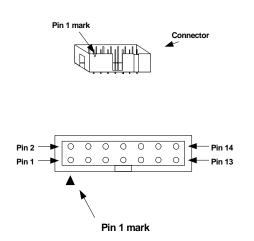


Figure 6.3 CN1 Pin Assignment

Refer) CN1 Product Name : 2.54mm Pitch 14-Pin Connector (Straight) Part Number : 7614-6002 Manufacturer : SUMITOMO 3M Limited

2) CN2 : 14-pin connector for connection user board Table 6-4 lists the CN2 pin Assignment.

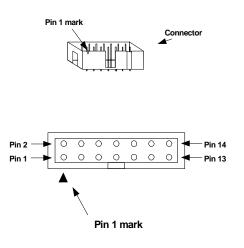


Table 6-4 CN2 Pin Assignment

Pin No.	Signal Name	MCU Pin Name
1	P46/SCLK1	13
2	VSS,AVSS	24,59
3	CNVSS	18
4	P47/SRDY1/CNTR2	12
5	N.C.	N.C.
6	VSS,AVSS	24,59
7	P45/TXD1	14
8	Vcc	57
9	N.C.	N.C.
10	VSS,AVSS	24,59
11	N.C.	N.C.
12	VSS,AVSS	24,59
13	RESET	19
14	VSS,AVSS	24,59

Figure 6.4 CN2 Pin Assignment

Refer) CN2 Product Name : 2.54mm Pitch 14-Pin Connector (Straight) Part Number : 7614-6002 Manufacturer : SUMITOMO 3M Limited

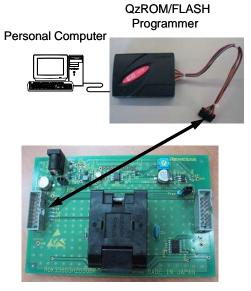
Table 6-3 CN1 Pin Assignment

Signal Name
P46/SCLK1
VSS,AVSS
CNVSS
P47/SRDY1/CNTR2
N.C.
VSS,AVSS
P45/TXD1
Vcc
N.C.
VSS,AVSS
N.C.
VSS,AVSS
RESET
VSS,AVSS

7. How to Use

7.1. Set Up (Programming on the IC socket board) Procedure 1 Connect the connector CN1 to E8.

The set-up ends above.



R0K33803HZ030BR

Figure 7.1 Connecting Example 1

7.2. Set Up (Programming on user target board)

Procedure 1 When drive capability of the user target power is not enough, connect external power for VPP generation to R0K33803HZ030BR.

*Since the R0K33803HZ030BR, MCU or E8 may be damaged, please note the power polarity.

Procedure 2 Connect the connector CN1 to E8.

Procedure 3 Connect the connector CN2 to the user target board.

Provide user target power supply and VPP external power supply based on a manual of the flash development tool kit (FDT). QzROM/FLASH

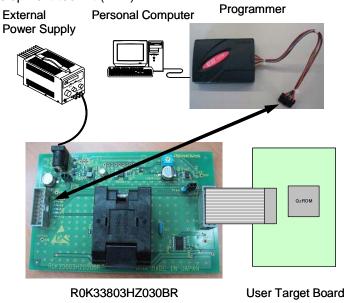
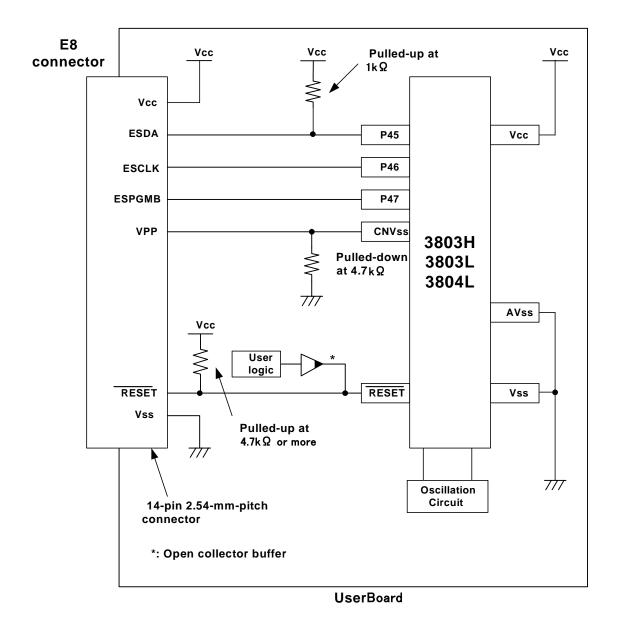


Figure 7.2 Connecting Example 2

7.3. Connection of user target board



8. Latest Information

The latest .3803H/3803L/3804L Group IC socket board information can be browsed and downloaded from Renesas web site shown below.

URL :

http://www.renesas.com/fmwk.jsp?cnt=ic_socket_board.jsp&fp=/products/tools/flash_prom_progr amming/flash_programmers/ic_socket_board/&site=i