### **RX610 Group Connection Example**

Created by: Renesas Electronics Corporation MCU Tool Product Marketing Department

The following is a connection example for the RX Family RX610 Group and E1/E20 emulator(14pin). Pull-up and pull-down resistance values are provided for reference only. Please perform an evaluation on your system to confirm actual values.

Although this connection example has been confirmed on paper, it is the user's responsibility to perform an evaluation on the user system to determine applicability. Renesas assumes no responsibility for determining the applicability of this example on the user system.

•<u>This connection example is for using the Flash Development ToolKit with E1/E20 as a flash programmer.</u> When you use E1 or E20 as a debugger, please refer to the connection example in the E1/E20 Emulator Additional Document for User's Manual prepared for each MCU group. You can download the E1/E20 Emulator Additional Document for User's Manual from the following URLs.

http://www.renesas.com/e1

http://www.renesas.com/e20



\*1 Connector manufacturer and model name

	Model Name	Manufacturer	Specification type
14-pin connector	2514-6002	3M Limited	14-pin straight type (recommended for overseas use)

×

Cancel

Communications Port	×	$\square$	Select [E1aDirect] or Select [E20aDirect]
	Use this page to select your desired communications port/interface. All settings may be changed after the project is created.		Pin Setting
211	Select port: EIDirect Select an Interface type to connect to the target device with. Normally this will be "Direct Connection" or simply left blank.		Pin Settings
	Select Interface:		Please set the pin value
	Set Reset pin as low when disconnecting    < Back  Next>    Cancel		Pin Outputs 🗖 Pin Setting 🗖 (High) 🗖

#### E1/E20 14pin Connector:



r III Seulli	g					
in Settings						
Please set the pi	n values	for c	onnection :			
	io5	io4	io3	io2	io1	io0
Pin Outputs			Γ			<b>▼</b> = 0x03
Pin Setting (High)		Γ	Γ	Γ		<b>▼</b> = 0x01

WARNING: Incorrect settings could damage your hardware

ΟK

(1) Make sure pins 2, 8, 12,
13 and 14 are connected

(2) Set unused pins to NC (Non Connect ).

Pin No.	E1 Pin Name (Flash Development ToolKit Settings)
1	io4
2	GND
3	Io5
4	ю
5	RxD (user-side TxD)
6	io1
7	Io3
8	UVcc
9	UVcc2
10	Io2
11	TxD (user-side RxD)
12	GND
13	/RES
14	GND

# **RX62T Group Connection Example**

Created by: Renesas Electronics Corporation MCU Tool Product Marketing Department

The following is a connection example for the RX Family RX62T Group and E1/E20 emulator(14pin). Pull-up and pull-down resistance values are provided for reference only. Please perform an evaluation on your system to confirm actual values.

Although this connection example has been confirmed on paper, it is the user's responsibility to perform an evaluation on the user system to determine applicability. Renesas assumes no responsibility for determining the applicability of this example on the user system.

•<u>This connection example is for using the Flash Development ToolKit with E1/E20 as a flash programmer.</u> When you use E1 or E20 as a debugger, please refer to the connection example in the E1/E20 Emulator Additional Document for User's Manual prepared for each MCU group. You can download the E1/E20 Emulator Additional Document for User's Manual from the following URLs.

http://www.renesas.com/e1

http://www.renesas.com/e20



\*1 Connector manufacturer and model name

	Model Name	Manufacturer	Specification type
14-pin connector	2514-6002	3M Limited	14-pin straight type (recommended for overseas use)

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🔲 🗐 = 0x14

□ □ = 0x04

Cancel

OK

Flash Developmer	nt ToolKit Settings	Select [E1aD	irect]					
Communications Port		or Select [E20al	Direc	t]				
1202	Use this page to select your desired communications port/interface. All settings may be changed after the project is created.							
	Select port:	Pin Sett	ing					
2 1	Select an Interface type to connect to the target device with. Normally this will be "Direct Connection" or simply left blank.	Pin Settings						
	Select Interface:	Please set the p	in value	s for c	onnection :			
14 13	Set Reset pin as low when disconnecting		io5	io4	io3	io2	io1	io0
		Pin Outputs		Γ	$\checkmark$	$\checkmark$		🗌 = 0x
	< Back Sext> Cancel	Pin Setting (High)		Γ		•		□ = 0x
		WARNING:	Incorrec	t setti	ngs could d	amage	your	nardware

### E1/E20 14pin Connector:



Pin No.	E1 Pin Name (Flash Development ToolKit Settings)
1	io4
2	GND
3	Io5
4	ю
5	RxD (user-side TxD)
6	io1
7	юз
8	UVcc
9	UVcc2
10	Io2
11	TxD (user-side RxD)
12	GND
13	/RES
14	GND

(1) Make sure pins 2, 8, 12, 13 and 14 are connected

(2) Set unused pins to NC (Non Connect ).

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Renesas Electronics Corp. MCU Tool Product Marketing Dept.

# RX621,RX62N Group and E1 Connection

The following is a connection example for the RX Family RX621,RX62N Group and E1/E20 emulator(14pin). Pull-up and pull-down resistance values are provided for reference only. Please perform an evaluation on your system to confirm actual values.

Although this connection example has been confirmed on paper, it is the user's responsibility to perform an evaluation on the user system to determine applicability. Renesas assumes no responsibility for determining the applicability of this example on the user system.

<u>This connection example is for using the Flash Development ToolKit with E1/E20 as a flash programmer.</u> When you use E1 or E20 as a debugger, please refer to the connection example in the E1/E20 Emulator Additional Document for User's Manual prepared for each MCU group. You can download the E1/E20 Emulator Additional Document for User's Manual from the following URLs.

http://www.renesas.com/e1



\*1 Connector manufacturer and model name

	Model Name	Manufacturer	Specification type
14-pin connector	2514-6002	3M Limited	14-pin straight type (recommended for overseas use)



#### \*1 Connector manufacturer and model name

	Model Name	Manufacturer	Specification type
14-pin connector	2514-6002	3M Limited	14−pin straight type (recommended for overseas use)

Flash Developmer	nt ToolKit Settings	or	E1aDirect] E20aDirect]	
Communications Port				
2999	Use this page to select your desired communications port/interface. All settings may be changed after the project is created.			
	Select port:	Piı	n Setting	
2 1	Select an Interface type to connect to the target device with. Normally this will be "Direct Connection" or simply left blank.		Pin Settings	
	Select Interface:		Please set the pi	in val
14 13.	Set Reset pin as low when disconnecting			io5
			Pin Outputs	Γ
	< <u>B</u> ack <u>Next</u> Cancel		Pin Setting (High)	

### E1/E20 14pin Connector:



Pin Settings						<b></b>
Please set the p	in value:	s for c	onnection :			
	io5	io4	io3	io2	io1	io0
Pin Outputs			<b>V</b>	◄		🗔 = 0x14
Pin Setting (High)				◄	Γ	□ = 0x04
WARNING:	Incorrec	t settir	ngs could da	amage	your ł	nardware
			0	К		Cancel

Pin #	E1/E20 Pin name (Setting for FDT)
1	io4
2	GND
3	io5
4	io0
5	RxD (User side: TxD)
6	io1
7	Io3
8	UVcc
9	UVcc2
10	Io2
11	TxD (User side: RxD)
12	GND
13	/RES
14	GND

(1) Make sure pins 2, 8, 12, 13 and 14 are connected

(2) Set unused pins to NC (Non Connect ).