

USB 3.0 Host Controller Driver

ISG-NC1-200061 Rev.0.04 February 17th, 2011

Driver Package Information

Introduction

This manual is intended for engineers who wish to utilize the RENESAS µPD720200 and µPD720200A USB 3.0 Host Controller in a Windows[™] based system using RENESAS device drivers.

Notice

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, we changed the old company name to new company name in driver package from Ver.2.0.4.0.

Target Device

USB3.0 Host Controller µPD720200 and µPD720200A

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1. Overview

This software is Renesas' original device driver for Windows Operating System that operates USB 3.0 Host controllers μ PD720200 and μ PD720200A.

1.1 System Requirements

The device drivers for the μ PD720200 and μ PD720200A work under the following Operating Systems.

- 1. Microsoft Windows XP (x86 and x64)
- 2. Microsoft Windows Vista (x86 and x64)
- 3. Microsoft Windows 7 (x86 and x64)
- 4. Microsoft Windows Server 2008 Release 2 (x64)

1.2 USB3.0 Host Controller Driver Installer Package Information

The USB3.0 Host Controller Driver Installer Package is generated by Install Shield 2010 SP1.The USB3.0 Host Controller Driver Installer Package includes the following files that provide the interface between μ PD720200/ μ PD720200A and desktop, laptop, Docking Station, or notebook PC:

1.2.1 Files

nusb3hub.cat : Catalog file for RENESAS Electronics USB 3.0 Root Hub Driver
nusb3hub.inf :INF file for installing RENESAS Electronics USB 3.0 Root Hub Driver
nusb3hub.sys : RENESAS Electronics USB 3.0 Hub controller Driver
nusb3xhc.cat :Catalog file for RENESAS Electronics xHCI Driver
nusb3xhc.inf :INF file for installing RENESAS Electronics xHCI Driver
nusb3xhc.sys : RENESAS Electronics eXtensible Host Controller Interface (xHCI) Driver
nusb3mon.exe: RENESAS Electronics USB3.0 Host Controller monitor application
nusb3mon.dll : RENESAS Electronics USB3.0 Host Controller monitor application DLL
nusb3utl.exe : RENESAS Electronics USB3.0 Host Controller Utility
nusb3ver.dll : RENESAS Electronics USB3.0 Host Controller driver version
nusb3mon.exe.mui : Monitor application Multi Language Interface file
nusb3utl.exe.mui : Utility Multi Language Interface file



1.2.2 LCID

The USB3.0 Host Controller Driver Installer Package supports the following 30 languages:

LCID(Hex)	Language	LCID(Hex)	Language	LCID(Hex)	Language			
0401	Arabic	040D	Hebrew	041B	Slovak			
0404	Traditional Chinese	040E	Hungarian	041D	Swedish			
0405	Czech	0410	Italian	041E	Thai			
0406	Danish	0411	Japanese	041F	Turkish			
0407	German	0412	Korean	0424	Slovenian			
0408	Greek	0413	Dutch	0804	Simplified Chinese			
0409	English	0414	Norwegian (Bokmal)	0816	Portuguese (Portugal)			
040A	Spanish (Traditional)	0415	Polish	0C04	Chinese (Hong Kong)			
040B	Finnish	0416	Portuguese (Brazilian)	0C0A	Spanish (Modern)			
040C	French	0419	Russian	2C0A	Spanish (Argentina)			

Table 1 Local ID (LCID) of Microsoft

1.2.3 Command Line Options

The USB3.0 Host Controller Driver Package supports the following command Line options:

/s	: Silent install command (refer to section 2.4.1)
/r	: Generate setup.iss file used for silent install (refer to section 2.4.2)
/v"CHECK_HW_EXIST=1"	: Check existence of USB3 Host Controller (refer to section 2.5)
/v"CHECK_HW_EXIST=1 NC	D_MESSAGE=1"
	: Hide the pop-up message when Host Controller is not found on used "CHECK_HW_EXIST=1" option (refer to section 2.9)
/v"NO_MONITOR=1"	: Monitor application not installed when previous driver package is not installed (refer to section 2.6)
/v"NO_UTILITY=1"	: Utility application not installed when previous driver package is not installed (refer to section 2.7)
/v"SET_SELSUS_MODE1=1	": Disable the Selective Suspend function. (refer to section 2.8)
/v"U1U2_DISABLE=1"	: Disable the Dynamic U1/U2 state control function (refer to section 2.10)
/v"U1U2_UTL_DISABLE=1"	: Not displaying the check box to disable the Dynamic U1/U2 state control function on "nusb3utl.exe" (refer to section 2.11)



1.3 Installation

The installation procedure includes 3 main steps:

- 1. Installing the driver software package to a computer
- 2. Installing the hardware
- 3. Installing the driver for USB 3.0 host controller.



1.4 Selective Suspend Function

USB 3.0 Host Controller Driver supports the Selective Suspend function for External Hubs from Ver2.0.20.0 or later. When RENESAS-USB3-Host-Driver-20200-setup.exe is installed without command line option on your PC, the Selective Suspend function is supported as follows. End Users can change it to "disable" on the Power Management tab of the External Hub's property page in Device Manager.

General	lectronics USB 3.0	0 Root Hub Properties		Renesas Electronics USB 2.0 Hub Properties General Driver Details Power Management
T	Renesas Electro	nics USB 3.0 Root Hub		Renesas Electronics USB 2.0 Hub
121 0	Device type: Manufacturer: Location:	Universal Serial Bus controllers Renesas Electronics Location 0		Allow the computer to turn off this device to save power Allow this device to wake the computer
This	e status device is working p	property.	*	
		ОК	Cancel	OK Cance

If you want to disable the Selective Suspend function, use the install option (/v"SET_SELSUS_MODE1=1"). Please see section 2.8.

When using this command line option, the Selective Suspend function can be disabled as follows. This is same as in Ver2.0.4.0 or earlier.

enesas El	ectroni	cs USB 3.0	Root Hub Properties	X	Renesas E	lectronic	ts USB 2.0) Hub Properties	
General	Driver	Details			General	Driver	Details		
T	Renes	as Electror	nics USB 3.0 Root Hub		5	Renes	as Electro	nics USB 2.0 Hub	
	Device Manufa Locatio	e type: acturer: on:	Universal Serial Bus controllers Renesas Electronics Location 0			Device Manufa Locatio	etype: acturer: on:	Universal Serial Bus controllers Renesas Electronics Location 0	
Devic This	e status device is	working p	roperly.	~	Devia	ce status device is	working p	property.	*
				.					-
					2				
			OK	Cancel				ОК	Cancel

Note : Selective Suspend function for External Hub is based upon Windows 7.



1.5 Dynamic U1/U2 state control Function

USB 3.0 Host Controller Driver supports the Dynamic U1/U2 state control function (USB3.0 power management) from Ver2.0.4.0 or later. Also end user can disable this on USB 3.0 Host Controller Utility (nusb3ult.exe) from ver2.0.26.0 or later.

USB 3.0 Host Controller Information	×
Renesas Electronics USB 3.0 Host Controller	•
Driver Version : 2.0.26.0	
Firmware Version : 4015	OK
Disable USB 3.0 power management functions	Cancel

If you want to disable the Dynamic U1/U2 state control function, please use the install option (/v"U1U2_DISABLE=1"). Please see section 2.10.

If you don't want to display this check-box, use the install option (/v"U1U2_UTL_DISABLE=1"). Please see section 2.11. In using this command line option, the end user cannot change the setting of Dynamic U1/U2 state control function on USB 3.0 Host controller Utility. This is same as in Ver2.0.4.0 or earlier.

USB 3.0 Host Controller Information	×
Renesas Electronics USB 3.0 Host Controller	•
Driver Version : 2.0,26.0	
Firmware Version : 4015	



1.6 Over Current Function

RENESAS USB 3.0 Host Controller Driver uses the Microsoft standard Over Current application.

To recover from the Over Current status, End Users have to reset the status with the application or restart the PC. The reset method with the application is shown below. 1. Click the pop up message ("Power Surge On Hub Port")



2. Click the "Reset" button.



Note : RENSAS USB 3.0 Host Controller Driver's behavior differs from Microsoft' behavior.





2. INSTALLING DRIVER

This chapter describes how to install drivers for μ PD720200 and μ PD720200A. All the following sections are written based on Windows 7. Note that the comments and conditions for other OS platforms may be different from these sections.

2.1 Installing the drivers for the μ PD720200 and μ PD720200A

- Save the RENESAS-USB3-Host-Driver-xxxx-Setup.exe on your PC at location of your choice. The xxxx portion shows version of installer package. This document is based on RENESAS-USB3-Host-Driver-2040-Setup.exe.
- 2. Start the **Run...** command on the **Start** menu and **Browse...** for the **RENESAS-USB3-Host-Driver-2040-Setup.exe** in your folder containing the driver files. Click on the **OK** button to start the installation procedure.
- 3. When the following dialog box is displayed, click on the **Next** button.
- 4. After accepting the terms in the License Agreement, click on the check box and the Next button.



- 5. Click on the **Install** button to start installing the Renesas Electronics drivers.
- 6. Click on the **Finish** button to exit the driver installation program.

eady to install the Program. The wizard is ready to begin installation.	InstallShield Wizard Complete
Click Install to begin the installation. Il you want to review or change any of your installation settings, click Back. Click Cancel to ext the wizard.	The InstalShield Wizard has successfully instaled Reneras Electronics USB 30 Host Controller Driver. Elick Finish to exi the wizard.
ičhad	



2.2 Uninstalling the drivers for the μ PD720200 and μ PD720200A

RENESAS-USB3-Host-Driver-xxxx-Setup.exe can uninstall only by using Programs and Features in Control Panel. This section describes how to uninstall in more detail.

1. Open "control panel". And click the "Programs and Features".



2. When the following dialog box is displayed, select the **Renesas Electronics USB3.0 Host Controller Driver**. Click **Uninstall** button.

Uninstall or change a program To uninstall a program, select it from the list and th	en click Uninstall, Change, or Repair.			
Organize 👻 Uninstall				
Name Uninertall this reportant	Publisher	Installed 0		
Application Verifier Application Verifier Kernel Mode Logging Facility (KmLog2) Compared Window Long Via	Microsoft Corporation Microsoft Microsoft	5/28/2010 6/7/2010		
Renesas Electronics USB 3.0 Host Controller Driver	Renesas Electronics Corporation	6/17/2010		
	Uninstall or change a program To uninstall a program, select it from the list and th Organize Uninstall Name Uninstall this program. Application Verifier Kenel Mode Logging Facility (KmLog2) Microsoft Windows Lono Kit - DTM Client Presses Electronics USB 3.0 Host Controller Driver	Uninstall or change a program To uninstall a program, select it from the list and then click Uninstall, Change, or Repair. Organize Uninstall Uninstall this program. Publisher Uninstall this program. Publisher Microsoft Corporation Microsoft Windows Loop Kit. DTM Client Microsoft Microsoft Windows Loop Kit. DTM Client Microsoft		



- 3. Start the Uninstalling.
- 4. Click on the Finish button to exit the uninstall program.

etup Stalus	Uninstall Complete
Henesse Electronics USB 3.0 Host Controller Driver is configuring your new software Installation	Instal SiveLi Viteral has finished universitying Revenac Electronica USE 3 D Host Cardiolar Drive.
Entr	

2.3 Installing the host controller drivers

 The computer will detect the USB 3.0 Host controller at power on, or when a card is plugged into a PCI Express or Express card slot. Once the Host Controller is detected, a dialog box is displayed and should read "Device driver software installed successfully." When you click this dialog box, the Driver software Installation dialog box is displayed as shown,

~		Your device is ready to use	
Your device is ready to use $\xrightarrow{\sim} \times$ Device driver software installed successfully.	ting purposes only. Build 7600	Renesas Electronics USB 3.0 Host Controller Renesas Electronics USB 3.0 Root Hub	
EN	▶ 11:32 AM 9/1/2009		Close

2. From the Start menu, click on the Control Panel. From Control Panel, click on System and Security, and then click on the Device Manager. You should find the RENESAS Electronics USB 3.0 Host Controller and the RENESAS Electronics USB 3.0 Root Hub under the Universal Serial Bus Controllers entry in the Device Manager. If there is not an "X" or "!" beside these entries, the driver installation for USB 3.0 Host Controller has finished successfully.





2.4 Silent installation of the drivers for the μ PD720200 and μ PD720200A

A normal installation receives the necessary input from end users in the form of responses to dialog boxes. However, a silent installation does not prompt the end user for input. A silent installation must get its end-user input from an InstallShield silent response file. (.iss file)

2.4.1 Silent installation

- 1. Uninstall the drivers for the μ PD720200 and μ PD720200A, if the drivers are installed on your PC. See section 2.2.
- 2. Run the following command: setup.exe /s

Note: When you run the silent installation command, the return code file will be generated in the "setup.log" file.

2.4.2 Recording the response file (setup.iss)

- 1. Start the **Run...** command on the **Start** menu and **open command prompt**.
- 2. Move the directory of the **RENESAS-USB3-Host-Driver-xxxx-Setup.exe** or **Setup.exe** on your PC to the location of your choice.
- 3. Run the following command and run the installation step (see section 2.1): **setup.exe /r /f1".\setup.iss**" (Save the setup.iss file in the current directory.)

2.5 Option: Check existence of USB3 Host Controller

This option checks existence of a USB3 Host Controller. If a USB3 Host controller doesn't exist on your PC, the device driver is not installed on your target PC. On the other hand, if a USB3 Host Controller exists, the device driver is installed.

- 1. Start the **Run...** command on the **Start** menu and **open command prompt**.
- 2. Run one of the following Installing commands.

Ex.1) setup.exe /v"CHECK_HW_EXIST=1"

Ex.2) setup.exe /v"CHECK_HW_EXIST=1 NO_MESSAGE=1"

3. If USB 3.0 Host Controller doesn't exist on your PC, Installer stops the installation. Also the following pop-up is shown when using Ex. 1 command.

Setup Status			
Renesas Electro Installation	vice USB 3.0 Host Controlle Error	er Driver is configuring your i	new software
Removing appli	LUSB3 Host	Controller is not found!	
		ОК	
ußhield			_

Note : If this pop-up message doesn't need to show, please use the "NO_MESSAGE" option, which is shown as Ex. 2 above and described in section 2.9 in more detail.



Note : The CHECK_HW_EXIST option is supported from Ver.1.0.14.0.

Note : It is necessary to restart your PC after uninstalling the device driver in the case of an existing USB3 Host Controller. This is a restriction of this command line option. This option checks existence of a USB3 Host Controller. When USB3 Host Controller doesn't exist on your target PC, this option causes the driver not to be installed.

2.6 Option: Monitor Application not Installed

This option causes the Monitor application of USB 3.0 not to be installed. If you don't want to install the Monitor application, you should use this option on command prompt.

- 1. Start the **Run...** command on the **Start** menu and **open command prompt**.
- 2. Run the following Installing command.

Ex.1) setup.exe /v"NO_MONITOR=1"

Note : This option is supported from Ver.1.0.19.0.

Note : If there is a USB3.0 Monitor Application already installed, it is necessary to uninstall the USB3 driver package of the previous version before installing the new USB3 driver package (v1.0.19.0 or later).

2.7 Option: Utility Application not Installed

This option causes the Utility application of USB 3.0 not to be installed. If you don't want to install the Utility application, you should use this option on command prompt.

- 1. Start the Run... command on the Start menu and open command prompt.
- 2. Run the following Installing command.

Ex.) setup.exe /v"NO_UTILITY=1"

Note : This option is supported from Ver.2.0.4.0.

Note : If there is a USB3.0 Utility Application already installed, it is necessary to uninstall the USB3 driver package of the previous version before installing the new USB3 driver package (v2.0.4.0 or later).

2.8 Option: Disable the Selective Suspend function

Selective Suspend function is enabled by default starting with Ver2.0.20.0. This option disables the Selective Suspend function. The Selective Suspend function is described in section 1.4. If you want to disable the Selective Suspend function, you should use this option on the command prompt.

- 1. Start the **Run...** command on the **Start** menu and **open command prompt**.
- 2. Run the following Installing command.

Ex.) setup.exe /v"SET_SELSUS_MODE1=1"



Note : This option is supported from Ver.2.0.20.0.

Note : Selective Suspend function for External Hubs is supported from Ver.2.0.20.0.

2.9 Option: Hide the pop-up message

This option suppresses the pop-up message when it is used with the "CHECK_HW_EXIST" option. If you want to hide the pop-up message on the "CHECK_HW_EXIST" option, you should use this option on the command line.

- 1. Start the Run... command on the Start menu and open command prompt.
- 2. Run the following Installing command.

Ex.) setup.exe /v"CHECK_HW_EXIST=1 NO_MESSAGE=1"

- Note : This option is supported from Ver.2.0.20.0.
- Note : This option can be used only with the "CHECK_HW_EXIST" option. If this option is used alone, it has no effect.

2.10 Option: Disable the Dynamic U1/U2 state control function

The Dynamic U1/U2 state control function is enabled in default setting with Ver2.0.4.0, and this is described in section 1.5. If you want to disable the Dynamic U1/U2 state control function, please use this option on the command prompt.

- 1. Start the **Run...** command on the **Start** menu and **open command prompt**.
- 2. Run the following Installing command.

Ex.) setup.exe /v"U1U2_DISABLE=1"

Note : This option is supported from Ver.2.0.26.0.

2.11 Option: Disable the check-box on USB 3.0 Host Controller Utility

From ver2.0.26.0, the USB 3.0 Host controller Utility supported the check-box to disable the Dynamic U1/U2 state control function. Please see section 3.1.1 for more detail. This check-box appears by default with Ver2.0.26.0.

If you don't want to display this check-box on the USB 3.0 Host controller Utility, please use this option on the command prompt.

- 1. Start the **Run...** command on the **Start** menu and **open command prompt**.
- 2. Run the following Installing command.

Ex.) setup.exe /v"U1U2_UTL_DISABLE=1"



Note : This option is supported from Ver.2.0.26.0.





3. USB 3.0 HOST CONTROLLER APPLICATIONS

This chapter describes the applications in more detail. All of the following sections are written based on Windows 7. Note that the comments and conditions for other OS platforms may be different from these sections.

3.1 Installing the Host Controller Applications

3.1.1 USB3.0 Host Controller Utility

This is a mini-application which displays the version of the host controller's FW and driver. This application is installed in the "All Programs" section of the Windows start menu.

Device	
Default Programs Deskton Gadget Gallery	
Ø Internet Explorer	DTMLLUAdminUser
🗐 Windows DVD Maker	
📰 Windows Fax and Scan	Documents
Windows Media Center	Pictures
The Windows Update	
XPS Viewer	wiusic
Accessories	Games
Games	
J Maintenance	Computer
🍌 Renesas Electronics	Control Panel
USB 3.0 Host Controller Driver	
Startup	Devices and Printers
- Sister Control	Default Programs
	Help and Support
4 Back	
Search programs and files	Shut down
	Proved Sector Press
	ai 🖭 🗔

From ver2.0.26.0, the end user can disable the Dynamic U1/U2 state control function (USB 3.0 power management). This method is follows.

- 1. Run the "USB 3.0 Host Controller Utility (nusb3utl.exe)".
- 2. Click the check box of "Disable USB3.0 power management functions".
- 3. Click "OK" button.
- 4. When changing this setting, the following pop-up is shown.



Note: To update the settings, you must reconnect all currently connected USB 3.0 devices.



3.1.2 USB3.0 Host Controller Monitor

This is a mini-application which displays a pop-up window giving information about the USB connection to the end user. There are only two cases that should appear in this pop-up window:

(1) **Pop-up window case1**

A USB3.0 capable device is connected to a port on the USB3.0 Host Controller via a USB2.0 hub or USB 2.0 cable. (See the section 11.1 of Universal Serial Bus 3.0 Specification for more detailed information.)



(2) **Pop-up window case2**

A Lack of bandwidth for Super Speed (SS) periodic transfers (Isochronous and Interrupt) for a port on our Host Controller was detected. This is only for super-speed periodic devices. To produce this situation, multiple super-speed isochronous devices are required.







4. InstallShield 2010 SP1 PROJECT FILE

This chapter describes the InstallShield 2010 SP1 project file in more detail for customizing the driver installer. InstallShild 2010 SP1 is necessary to customize a driver installer. All of the following sections are written based on Windows XP. Note that the comments and conditions for other OS platforms may be different from these descriptions.

4.1 Basic settings

When USB3.0 Host driver installer package is customized, you should set the following items. These settings are necessary to customize the driver installer.

4.1.1 Set the folder Renesas USB 3.0 Host Controller Driver file of Path Variables

At first you should set the absolute path of the source file folder to customize the driver installer at the following locations:

CustomDLLSrcFolderX64 : Located the folder of Custom Action DLL(x64)

CustomDLLSrcFolderX86 : Located the folder of Custom Action DLL(x86)

LicenseSrcFolder : Located the folder of license file

VersionSrcFolder : Located the folder of version DLL

MonitorSrcFolder : Located the folder of Monitor application file

UtilitySrcFolder : Located the folder of Utility application file

DriverSrcFolderX64 : Located the folder of Driver(x64)

DriverSrcFolderX86 : Located the folder of Driver(x86)





4.1.2 Set the folder of Custom DLL(x86 and x64)

You should set the absolute path of custom action DLL file(x86 and x64).

🕙 usb3drvinst-msi - InstallShield [In	stallScript MSI Project]		
Eile Edit View Go Project Build	oolsindowelp		
🗋 🗁 HI 🕫 🖓 🗖 🗍 🕈 🖊 🔶	-> => -> -> => (-> == (-	🖞 🥹 🖕	
Start Page Project Assistant In	stallation Designer		Custom Actions and Sequences 릚
🦂 🕺 Redistributables		Common	
Mobile Devices	InstalDriverx64	InstallDriverX64 Custom	Arbin
System Configuration	InstalLinverxab	DLL Filename	<isprojectdatafolder>¥customdll¥x64¥nusb3drvinst.dll</isprojectdatafolder>
Registry	RemoveDevicesX04	Function Name	Noobobriv_Instalionica
	SetDriverPathX64	Return Processing	Synchronous (Check exit code)
INI File Changes	SetDriverPathX86	In-Script Execution	Immediate Execution
Environment Variables	StartMonitor	Execution Scheduling	Always execute
XML File Changes	StopMonitor	Use 64Bit Scripting	No
- 📅 Text File Changes	UninstaliDriverX64	Install UI Sequence	<absent from="" sequence=""></absent>
Canal Server Configuration	🔄 🔄 UninstallDriverX86	Instal UI Condition	
Internet Information Services	🗷 🎹 Action Text	Install Exec Sequence	After InstallDriverX86
Component Services	🖻 🖶 Sequences	Install Exec Condition	VersionNT64 AND NOT REMOVE="ALL"
SQL Scripts	🖻 🧰 Installation	Advertise Exec Sequence	<absent from="" sequence=""></absent>
Behavior and Logic	User Interface	Advertise Exec Condition	
		Admin UI Sequence	<absent from="" sequence=""></absent>
Custom Actions and Sequences	Advertisement	Admin UI Condition	
System Search	Ser Interface	Admin Ever Secuence	<abcont consigning="" from=""></abcont>
Di Broperty Manager		DLL Filename Property	1
User Interface Dialogs Dial	⊕ 付 User Interface ⊕ 😚 Execute	Enter the path to the dy action, or select it from table, or select Browse your setup in the binary	namic link library file you would like to use in your custom the list of available dynamic link libraries in your binary to navigate to it. This file will automatically be added to table.
Ready			CAP NUM SORL

When you set the path of Custom Action DLL(x86 or x64), the following pop-up is shown. You should select "Yes" button, so the absolute path of all custom action DLL (x86 or x64) is replaced.

InstallS	hield 🔣
1	Other custom actions use <programfilesfolder>¥nec electronics¥usb 3D driver installer generator¥bin¥x64¥nusb3drvinstdll. Do you want to update all custom actions that use this path? Yes - update all the custom actions that use <programfilesfolder>¥nec electronics¥usb 3D driver installer generator¥bin¥x64¥nusb3drvinstdll. No - update only this custom action. (J(x))</programfilesfolder></programfilesfolder>



4.2 General Information

This menu is the general information for Driver Installer. For example, it is possible to change the Supported Language of driver installer, Product Name, Product Version, and so on.

🐸 usb3drvinst-msi – InstallShield [l	nstallScript MSI Project]			
: <u>E</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>P</u> roject <u>B</u> uild	Tools Window Help	A Loss of Barrier		
		2.5		
[[[[] 이 이 때 [[] [] [] 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	1 ° H "H 5			
▶▼■圖圖A圖● 圖■	1-1 前月2日周期的11日	गे हिंगे 😨 🛫		
Start Page Project Assistant Ir	stallation Designer	General Information 🎟		
Installation Information				
Lindate Notifications	🖂 General	~		
W Trialware	Project File Name	D:VInstaliShield 2010 Projects/USB3.0 Host Driver v2.0.9.0Beta/Usb3drvinst-msi		
🗏 🛅 Organization	Project File Format	Binary		
Setup Design	Setup Languages	英語 (米国): English, ヘブライ語: ルエロル, オランダ語 (オランダ): Nederlands, チェコ語: č		
- Peatures	Default Language	英語 (米国): English		
Components	Enable Maintenance	No Traditional Style (Requires Setup.exe) Renesas Electronics USB 3.0 Host Controller Driver		
Setup Types	InstallScript User Interface Type			
Elec and Folders	Product Name			
- Bedistributables	Product Version	2.0.4.0		
Mobile Devices	Product Code	{5442DAB8-7177-49E1-8B22-09A049EA5996}		
🗟 🧰 System Configuration	Upgrade Code	{55C42A84-0660-4964-BAC0-3DE87AEE5C06}		
Contracts Contracts	Install Condition	0 condition(s)		
Registry	INSTALLDIR	{USB_3.0_HOST_CONTROLLER_DRIVER} [ProgramFilesFolder]Renesas Electronic		
DDBC Resources	Locked-Down Permissions	Custom InstallShield handling		
P INI He Changes	Create MSI Logs	No		
XML File Changes	Fast Install	I No system restore point is saved for this installation Perform only File Costing and skip checking other costs Reduce the frequency of progress messages		
Server Configuration	Summary Information Stream			
Component Services	Title	Installation Database		
SOL Scripts	Subject	{ID_STRING4} USB 3.0 Host Controller Driver		
Behavior and Logic	Author	(COMPANY_NAME) Renesas Electronics Corporation		
💮 InstallScript	Keywords	Installer, MSI, Database		
E Custom Actions and Sequenc	Package Code	{0796A2CA-851C-40F5-8222-C2D58E5A698F}		
Support Files/Bilboards	Template Summary	Intel;1033		
System Search	Summary Information Stream Comments	{ID_STRINGS} Setup launcher		
Product Name Product Name				
Dialogs	Enter the name of the product. For information	n on how the product name is used, see <u>Specifying a Product Name</u> .		
Ready		OAP NUM SCRL .:		



4.3 Supported Languages for Mini Applications

We offer the MUI (Multi User Interface) files for the mini application. MUI file is the display language file for mini applications. If you change the support languages of the mini applications, you should delete the mini application components (Monitor and Utility) from project file. See the following photo.

For example, Monitor0401 folder is stored the Arabic's MUI file. So you need to delete the components of languages which you don't support. See the section 1.2 for more detail of LCID.







5. Appendix

5.1 Setup.exe Return Values and Run-Time Errors (Basic MSI and InstallScript MSI Projects) InstallShield 2010

The table below lists the errors that might occur when Setup.exe runs in a Basic MSI or InstallScript MSI project. For Setup.exe errors that might occur in an InstallScript project, see Setup.exe Return Values and Run-Time Errors (InstallScript Projects).

You can capture these return values when you call the CreateProcess API to launch Setup.exe, or use a batch file to launch Setup.exe.

Note : If an error occurs, the strings displayed might not be displayed in English if your operating system is not running in English.

Error Number	Description	Troubleshooting Tips	
-4	Invalid command line.	Verify that a valid command line is passed to Setup.exe.	
-3	The installation exited because the end user canceled the installation.	Not applicable.	
-1	General error.		
0	Program terminated successfully.	Not applicable.	
401	String variable is not large enough for string. InstallShield was attempting to copy a text string into a string variable. The text string was larger than the length declared for that string variable.	Check the declared length of the string variable. Increase the length to the maximum allowed value.	
1150	Setup has detected an incompatible version of Windows. Click OK and relaunch the setup on Windows 95, Windows NT 4.0, or later.	Windows Installer is compatible with NT 4.0 and later, and Windows 9x and later. Check your version of Windows and upgrade if necessary.	
1151	Error writing to the temporary location	To write to the temporary location, the environment variable TEMP must be set. Verify that the Temp folder exists and has enough disk space to accommodate the setup. If there are files in the Temp folder, delete them and rerun Setup.exe.	
1152	Error extracting <file name=""> to the temporary location</file>	Check to see that you are able to write to the Temp folder (see errors above). If the Temp folder is valid, there may be corrupted files in the setup. Check the files to ensure none are corrupted and rerun Setup.exe.	
1153	Error reading setup initialization file	The Setup.ini file must be located in the same folder as Setup.exe. If not, move Setup.ini to that location.	
1154	Installer not found in <path></path>	Windows Installer may not have been properly installed, or you may have an older version. Reinstall if necessary.	



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1155	File <file name=""> not found</file>	Make sure the .msi file exists. If so, make sure it is located in the same folder as Setup.exe. You may not see the .msi file if you chose to compress it into Setup.exe.
1156	Internal error in Windows Installer	Windows Installer was unsuccessfully installed. Run the InstMsiW.exe file (for Windows NT and 2000) or InstMsiA.exe (for Windows 9x) to reinstall.
1157	Failed to launch Msiexec.exe.	Make sure you distribute the correct version of Windows Installer for the target platform. Check the syntax on your Msiexec.exe command-line arguments.
1158	Error populating strings.	Verify that all strings in Setup.ini and any language- specific INI files in the Disk1 folder (such as 0x0409.ini) are valid.
1201	Setup needs <amount> KB free space in <folder>. Please free up some space and try again.</folder></amount>	There is insufficient disk space in your target location. Please make sure there is at least 10 MB of free space in the drive where the setup is set to install.
1202	You do not have sufficient privileges to complete this installation for all users of the machine. Log on as an administrator and then retry this installation.	In Windows NT 4.0 and 2000, you must have administrative rights to complete this installation.
1203	Invalid command-line parameters.	Double-check the command-line statement used to launch Setup.exe.
1207	Windows Installer <version> not found. This is an older version of Windows Installer. Click OK to continue.</version>	In Windows 2000 and later, Windows Installer is installed by default. If the end user's version of Windows Installer is an earlier version, this warning is displayed. It should not prevent the setup from running correctly. To suppress this warning, select the current release's icon in the Releases view, and change the Suppress
	ANSI code page for clanguages is	Launcher Warning setting to "Yes."
1208	therefore setup cannot run in the selected language. Run the setup and select another language.	Run the setup and select another language.
1603	General Windows Installer engine error. Increase DiskSpace requirement in Setup.ini and try again.	Reinstall Windows Installer by running InstMsiW.exe file (for Windows NT and 2000) or InstMsiA.exe (for Windows 9x) to reinstall.
1611	Unable to extract the file <filename>.</filename>	This error occurs when a file compressed inside Setup.exe cannot be extracted. Verify that there is sufficient disk space available in the Temp folder (or, if not, in the Windows or WinNT folder), and that Setup can write to those folders.



		If the URL is incorrect, click Cancel and enter the
1614	An error occurred while	
1014	downloading the file <filename>.</filename>	If the URL is correct, verify that an active Internet
		connection is available.
		The file was downloaded, but the signature could not
		been signed by a different company than originally
1621	Failed to verify signature of file <filename>.</filename>	signed it, or it might not be signed.
		Verify that the file Wintrust.dll exists on the target system.
		Ensure that the specified file does not already exist,
1627	Unable to save file: <filename>.</filename>	and that the target system has sufficient hard drive space.
1628	Failed to complete script based install.	
1629	Invalid command line	Double-check the command-line statement used to
1020		launch Setup.exe.
		[1] is the full path to the .dll file that the installation is
		attempting to load (ISSetup.dii in all cases).
	Unable to load module [1] Error	[2] is the Windows error returned from LoadLibrary().
1670	Code: [2]	This error occurs if ISSetup.dll is not in the Disk1
		folder. It also may occur if ISSetup.dll is compressed in
		Setup.exe if a compressed media is being built.
		To resolve this error, try rebuilding the release.
1700	An error occurred initializing the InstallScript engine.	This error indicates that a problem occurred when the engine was being loaded.
		This error occurs if one or more files could not be
1701		extracted from the ISSetup.dll file to a temporary
		directory.
	Unable to extract InstallScript	To the definition of this second sector of MCs down losts to the
	location	To troubleshoot this error, create a windows installer
		corresponding Windows error number and other
		diagnostic information that may help troubleshoot this
		issue.
	Error configuring ODBC data	Machines running Windows 95 do not have the ODBC
1919	source. Verify that the file exists	core. You need to install MDAC before installing any
	and that you can access it.	package with an ODBC driver.





5.2 Checking for Errors Using the Setup.log File

This chapter describes the InstallShield 2010 SP1 project file in more detail for customizing the driver installer. InstallShild 2010 SP1 is necessary to customize a driver installer. All of the following sections are written based on Windows XP. Note that the comments and conditions for other OS platforms may be different from these descriptions.

Result Code	Description		
0	Success.		
-1	General error.		
-2	Invalid mode.		
-3	Required data not found in the Setup.iss file.		
-4	Not enough memory available.		
-5	File does not exist.		
-6	Cannot write to the response file.		
-7	Unable to write to the log file.		
-8	Invalid path to the InstallShield Silent response (.iss) file.		
-9	9 Not a valid list type (string or number).		
-10	-10 Data type is invalid.		
-11	-11 Unknown error during setup.		
-12	-12 Dialog boxes are out of order.		
-51	Cannot create the specified folder.		
-52	Cannot access the specified file or folder.		
-53	Invalid option selected.		

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Revision Record

		Description		
Rev.	Date	Page	Summary	
0.01	July 13th, 2010	-	First edition issued.(ISG-NC1-200020)	
0.02 August 11th, 2010		-	Second edition issued. (ISG-NC1-200030)	
		-	Modified	
			 Section 1.1(Added the System Requirement) 	
			 Section 1.2.3(Added the Command line option) 	
			 Section 2.5(Added the explanation about the pop-up 	
			message)	
		-	Added	
			 Section 1.4(Selective Suspend function) 	
			- Section 2.8(Option: Disable the Selective Suspend function)	
			- Section 2.9(Hide the pop-up message)	
0.03	October 7th, 2010	-	Third edition issued. (ISG-NC1-200040)	
		-	Modified	
			 Section 1.2.3(Added the Command line option) 	
			 Section 3.1.1(Added the explanation about Check-Box to 	
			disable the Dynamic U1/U2 state control function)	
		-	Added	
			 Section 1.5(Dynamic U1/U2 state control function) 	
			- Section 2.10(Option: Disable the Dynamic U1/U2 state control	
			function)	
			- Section 2.11(Option: Disable the check-box on USB 3.0 Host	
0.04			Controller Utility)	
0.04	February 17th, 2011	-	Forth edition issued. (ISG-NC1-200061)	
		-	Added	
			- Section 1.6 (Over Current function)	
			- Section 5 (Appendix)	

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