> Version 1.00 [ANDTR100] April 2014 Renesas Micom Car Rally Secretariat

Important Notice (Revision 1.2)

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1. What is the Renesas Integrated Development Environment

Renesas eclipse embedded studio (e^2 studio) is a complete development & debug environment based on the popular Eclipse CDT project. Essentially open-source, the Eclipse CDT covers build (editor, compiler and linker control) as well as debug phase based on an extended GDB interface.

 e^2 studio is required to edit, compile & build the code for your MCU Car Rally kit. A free evaluation version of the tool can be downloaded from the Renesas website, or you can install from the MCR Start-up Kit – the MCRResources.zip folder downloadable from mcurally.com.





Item	Description
	IBM PC/AT compatibles
	Windows® 8 (32-bit, 64-bit)
	Windows® 7 (32-bit, 64-bit)
	Windows® XP (32-bit)
Operating	Processor: 1 GHz or higher (must support hyper-threading, multi-core CPUs)
environment	Memory capacity: 2 GB or more recommended. Minimum requirement is 1 GB or more
	(64-bit Windows requires 2 GB or more)
	Hard disk capacity: 1 GB or more spare capacity
	Display: 1024 x 768 or higher resolution, 65,536 or more colors
	Interface: USB 2.0

Target Devices	e ² studio has been developed to support the key promotion families of Renesas controllers: RL78 Family RX Family RH850 Family* SuperH Family (SH-2 and SH-2A)
Main features	Renesas eclipse embedded studio, known as e ² studio, is a complete development and debug environment based on the popular Eclipse CDT project. Essentially open source, the Eclipse CDT covers build (editor, compiler and linker control) as well as debug phase based on an extended GDB interface. A wide range of compilers can be integrated into e ² studio to ensure customer has the choice of tools to match their project requirements. When combined with the extremely powerful editor functionality and project management tools automatically built into Eclipse CDT, e ² studio offers a state of the art coding environment for Renesas embedded controllers. To complete the development cycle, Renesas has developed a range of GDB debuggers to interface between the coding environment and a range of on-chip and in-circuit emulators.
Limitation of free evaluation version	 The linker is limited to 128KB Code & Data after the initial unlimited 60 day period. Supplied without technical support.

2. Downloading the MCR Start-up Kit from the MCU Rally site

Downloading and installing the software from the MCR Start-up Kit is advantageous as everything is located in one place.

	← → C D moralycom ☆	
	AND Technology Research Involution with purpose Home Products Services News About us	
	Renesas Buropean MCU Car Ralty Challenge	
	Your chance to join the 1st European Renesas MCU Car Rally RENESAS	
	Be part of the largest global line trace type robot competition – an excellent learning opportunity for university students	Open the MCU Rally
1	Build a self-guided car from a supplied kit of components.	magai
1	 Optimise the hardware/software pedomance. 	page:
	 Attend a competition race day in Germany in the first quarter of 2015. 	http://mcurally.com/
	 Win the race against your peers. 	
	 Targeting European University Students, but open for anyonel 	
	Photos & videos	
	Resease Usi Program & MCU Car Rail	

2	Kit resources Download instruction guides, software tools & example code for your MCR kit	Scroll down to the 'Kit Resources' icon and click the link.
---	---	---

	AND Technology Research	Innovation with purpose Home Products Service	es News About us	Click 'Download' to get the kit – the file is called 'MCRResource s.zip' and is 765MB in size. It may take some time to download but will
3	Register	MCD Vit documentation activities		provide you with
3	ster here for Renesas MCU Car Rally (MCR) enge updates & support!	tools, drivers & example code	Download	modify and program in
	me (Requ Email (Requ Website (Re ssage (Required)	Download 'zip' file & unzip to a new folder on your system. [MCRResources.zip 765MB]		your car's software code.
				Once this has
				downloaded skip ahead
				to section 'Installing
				the Renesas RX
				100icnains ² .

3. Downloading the Renesas IDE (e² Studio) and supporting RX Toolchains

The IDE and supporting Toolchains can be downloaded through the Renesas website, or can be loaded from the 'MCR Kit Software Tools & Drivers' folder in the MCR Start-up Kit.

To download the IDE and Toolchains from the Renesas webiste follow the steps below, or if you have the MCR Start-up Kit, **skip ahead to section 'Installing the Renesas RX Toolchains'.**

3.1 Preliminary to download from the Renesas home page(User registration of MY Renesas)

To download items from the Renesas site, you will need to register a My Renesas account. It is free to register, and needs your e-mail address.

	Processory Application Applicatio	Development Tools Development Tools, RT05, Meddemann Star Star Star Star Star Star Star S	Assertibution (a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	Add Browns Constantial Consta	Renesas Electronics
1	Professor Matching & Property Michael Property Michael Professor R Restart Professor R Restart Professor Profes	B Devices () Analog IX: () C Step in propose Lunear C Step in propose Lunear C Step in the systematic C Step in C C C C C C C C C C C C C C C C C C	Design Assistance UB Bay Samples Context Tools Context Too	Type of the March A te arthropological Tope March Approximation Service Ser	Click My Renesas .
Click "M	y Renesas"	Contents UDGEDOCENERGES Provide Contents UDGEDOCENERGES Contents UDGEDOCENERGES Provide Contents Pr	erer Dináces en nora aloci de lanciment	Forum Category Category Category Category Category Category Category Prof sector and	

Advance to "Download of Renesas RX Toolchains" if you are already registered.



3.2 Download of Renesas RX Toolchains



	RH050 Family C Compiler Package for V850 Family Software Package for V850 research	e ² studio 2.1.0.21 insteller (Single Download)	Sep 30.13 phase support (not included in the download) Version: 2.1.0.2	nd build otchains a Sample	Code
	(27856) C/C++ Complex Plackage for MORE Family (MET-CC25F) C/C++ Complex Plackage for Support Family C/C++ Complex Plackage for HSSS, HSS, HS Hanky	e ² studio 2.0.2.1 installer	Renesas e ² stu complete IDE ins including debug phase support not included in dovvrlaed) Version 2.0.21	o dedison nolobhains b	
	C Complex Peckage for RL18 and 76k Families e ² studio	RX Compiler CC-RX V1.02.01 standaione	Oct.22.12		
4	CIC++ Complet Package to RBC and M16C Partiles Software Package for 78K08 (SP78K09) Software Package for 78K0	sance Embedd High-perfor p V.4.09.01 p	Jun.20.12 This is an updat performance Br Workshop inclu compiler or debx	of High- ediad din a ger.	Click the Downloads tab, then on the second page of results, select RX Compiler CC-RX
	[SP7840] Sottware Package for 75405 [SP78405] Sottware Package for 78K4 [SP7844] C. Centralize Reclame (m 740)	whice Embedd Ember v .4. Upd	Jun.20.12 Jun.20.12 This is an updat performance En Workshop inclu compiler or delsu updates only V. the V 4.09.01	of High- edded d In a ger. It 09.00 to	V1.02.01 standalone installer for e2 studio
	Family (MST-SRA74) RX Compiler Family (MST-SRA74)	Peckage	21.12 Includes High-pr Embedded Wahi and the simulato	formance hop IDE	
	Absolute Assembler for 4500 Series (ASM45)	Click "RX Co	ompiler CC	-RX v1.02.01	
	sas and you relating	to the Software a	and it superse	des any prior rep	es
	ie Software.				
	greement or if you v	vish to request any	y information f	rom Renesas plea	se
	tions.)				
5		Agree	Disagree		Click Agree after reading the AGREEMENT.
		World Renesas	Using Our We	bsite Privacy	D F
1	1				



	Login to proceed.	If you do not have a My Renesas account, please register for a new account first.
	Email Address	download this software.
7	Password	
	Cancel / Close Submit	If you have a My Renesas account, login by entering your e-mail address and password, and clicking Submit.
	Forgot your password?	
	New user? Click here to register now	

8

	Purpose		
8	Purpose	Select all applicable items.	Check your purpose, and click Submit.



3.3 Installing the Renesas RX Toolchains



	Open File - Security Warning	
2	We can't verify who created this file. Are you sure you want to run this file? Image: Image	Click Run.
	This file is in a location outside your local network. Files from locations you don't recognize can harm your PC. Only run this file if you trust the location. What's the risk?	



Renesas RX Toolchain v1.02.01.00 - InstallShield V License Agreement Please read the following license agreement carefully. Licensed Copy Number : 1 Copy Software User License Agreement The customer (hereafter referred to as "L: Dances
Software User License Agreement The customer (hereafter referred to as "Li and Renesas Electronics Corporation. (hereafter referr "Licensor") do hereby agree to the terms and conditions a specified in this Software User License Agreement (hereafter referred
I accept the terms in the license agreement I do not accept the terms in the license agreement stallShield

	邊 Renesas RX Toolchain v1.02.01.00	- InstallShield Wizard
	Ready to Install the Program The wizard is ready to begin installation.	RENESAS
	Click Install to begin the installation.	
5	If you want to review or change any of your installati exit the wizard.	on settings, dick Back. Click Cancel to
	InstallShield	Install Cancel

	📙 Renesas RX Too	olchain v1.02.01.00 - InstallShield Wizard	
6		InstallShield Wizard Completed The InstallShield Wizard has successfully installed Renesas RX Toolchain v1.02.01.00. Click Finish to exit the wizard.	Click Finsh to complete the installation of the RX Toolchains. Later we will register the toolchains with the Renesas IDE e2 Studio the first time we load the program.
		< Back Finish Cancel	

3.4 Download of Renesas Integrated Development Environment

To download the IDE from the Renesas webiste follow the steps below, or if you have the MCR Start-up Kit, **skip** ahead to section 'Installing the Renesas integrated development environment'.





3	Accessor Homann Podulion Software Partice (Lineau (Lineau Partiert)		Scroll down to the section labelled C/C++ Compilers and Assemblers and select C/C++ Compiler Package for RX Family.
---	--	--	---







	Login to proceed.	If you do not have a My Renesas account, please register for a new account first.
	Email Address	A My Renesas account is required in order to
7	Password	download this software.
	Cancel / Close Submit	If you have a My Renesas account, login by entering your e-mail address and password, and clicking Submit.
	Forgot your password?	
	New user? Click here to register now	

	Purpose			
8	Purpose	Select all applic	cable items. Study Evaluation V Development Test Prototype Mass production less than 1000 units Mass production 1000 units or more Other purpose (please specify)	Check your purpose, and click Submit. Save the file to your PC.

3.5 Installing the Renesas integrated development environment





	Benesas e2studio - InstallShield Wizard License Agreement Please read the following license agreement carefully.	
3	RENESAS e2studio SOFTWARE LICENCE By clicking "I accept" then on behalf of the Client you legally bind the Client to the terms of this software license. If you are not authorised to install the software on this installer medium and agree to the terms on behalf of the Client then you should click "No" on the installer. You should seek legal advice if you are unsure of the above matters I accept the terms in the license agreement I do not accept the terms in the license agreement InstallShield Cancel	Read the license agreement, check the 'I accept' option, and click Next >.





8		Select the toolchains and click Register.
---	--	---

9	Click Ok to open the e2 Studio IDE
---	------------------------------------



* The linker is limited to 128KB code & data after the initial unlimited 60 day period. The evaluation version of e2studio is provided without technical support.

3.6 Create the shortcut icon

For running the "e2 Studio" easily, create a shortcut icon on your desktop.





3	Renesas Renesas Electronics e2studio Renesas e2studio Renesas Electronics Tools Renesas Electronics Tools	Compu Networ	Open folder Renesas Electronics e2studio .
---	---	-----------------	---



6	Renesas e2studio		Shortcut was created on the desktop.
---	---------------------	--	--------------------------------------

3.7 Display of the extensions

There are many files only differentiated by their extension such as "kit12_rx62t.c", "kit12_rx62t.obj" and "kit12_rx62t.mot", used by the Renesas software. Therefore, we would confuse the files if the "Hide file extensions for known file types" Windows setting was selected. Change the default setting to display extension here.





	Folder Options General View Search Folder views You can apply the view (such as Details or Icons) that you are using for this folder to all folders of this type. Apply to Folders	
3	Advanced settings:	 [1] Open the View tab. [2] Move scroll bar below of Advanced settings. [3]Uncheck Hide extensions for known file types. [4]Click OK.

4 Preparation for Writing Program to MCU

4.1 Download of FDT (Flash Development Toolkit)

Advance to "Install of FDT (Flash Development Toolkit)" if you are using the the MCR Start-up Kit.













7	authoriz	ed as an Administrator. No one but the File Size 43,026,584 bytes (41.03 Mbytes)	Download Link Download Back To Top	Click Download .

8	Login to proceed. Email Address Password Cancel/Close Submit	If you do not have a My Renesas account, please register for a new account first. A My Renesas account is required in order to download this software. If you have a My Renesas account, login by entering your e-mail address and password, and clicking Submit.
	Forgot your password? New user? Click here to register now	and clicking Submit. Save the file to your PC.



4.2 Install of FDT (Flash Development Toolkit)

1	Fdtv409r02.exe Setup.exe Macrovision Corporation	Run the fdtv409r02.exe file of the "FDT (Flash Development Toolkit)" you downloaded from the web, or run it from the run the setup.exe file from the the MCR Start-up Kit (it is located inside the 'Resources' folder, then 'MCR Kit Software Tools & Drivers', then 'Renesas FDT').
2	Renesas Flash Development Toolkit (v4.09) - InstallShield Wizard Welcome to the InstallShield Wizard for Renesas Flash Development Toolkit (v4.09) The InstallShield Wizard will install Renesas Flash Development Toolkit (v4.09) on your computer. To continue, click Next. Continue Continue Cancel	Click <u>Next ></u> .
3	Renesas Flash Development Toolkit (v4.09) - InstallShield Wizard Select Language Language selection will determine the language of the installed help and user documentation. International (English) Asia (Japanese) Asia (English) InstallShield Release Notes InstallShield Back Next > Cancel 	After select the language, Click <u>Next ></u> .
4	Renesas Flash Development Toolkit (v4.09) - InstallShield Wizard License Agreement Please read the following license agreement carefully. Software User License Agreement The customer [hereafter referred to as "Licensee"] and Renesas Electronics Corporation[hereafter referred to as "Licenser"] do hereby agree to the terms and conditions as specified in this Software User License Agreement[hereafter referred to as "Agreement"] concerning the enclosed software and its explanatory manuals. ARTICLE 1. Definition 1.1 "Licensed Software" shall mean the main unit of the software to Section 1.4 below and documentation such as explanatory manuals and all other related materials. I accept the terms of the license agreement I do not accept the terms of the license agreement InstallShield Kaak Next 2 Cancel	Select " I accept " after reading the AGREEMENT. Click <u>Next ></u> .



Renesas Flash Develop Select Options	oment Toolkit (v4.09) - InstallShield Wizard	s	
Setup requires you	to make the following choices:		
🔲 Clean up old set	tings. This option removes any existing settings before installing.		
Associate data files	. Data files will open in FDT.		
🔽 .a20	🕼 .fpr		
📝 .a37	🔽 .mot	Click Next \geq .	
📝 .bin	📝 .rec		
🔽 .cde	✓.s2		
🔽 . ddi			
	< Back Next > Cancel		

	Renesas Flash Development Toolkit (v4.09) - InstallShield Choose Destination Location Select folder where setup will install files.		
7	Setup will install Renesas Flash Development Toolkit (v4.05 To install to this folder, click Next. To install to a different fol another folder.) in the following folder. der, click Browse and select	ClickNort
/	Destination Folder C:\Program Files (x86)\Renesas\FDT4.09	Browse	Click <u>Mext ></u> .
	InstallShield — CBack	Next > Cancel	

	Renesas Flash Development Toolkit (v4.09) - InstallShield Wizard	
	Ready to Install the Program The wizard is ready to begin installation.	
	Click Install to begin the installation.	
	If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
3		Click Install.
	InstallShield	

	Renesas Flash Development T	oolkit (v4.09) - InstallShield Wizard	
9		InstallShield Wizard Complete The InstallShield Wizard has successfully installed Renesas Flash Development Toolkit (v4.09). Click Finish to exit the wizard.	Click Finish to complete installation.
		< Back Finish Cancel	

10	Flash Development Toolkit 4.09 Basic	For your convenience, a shortcut icon for Flash Development Toolkit 4.09 Basic is created on your desktop.
----	--	--

4.3 Download of USB Drivers

To write programs to the RMC-RX62T MCU board, the USB Serial Converter and USB Serial Port Driver are needed. You can get these drivers from the FTDI (Future Technology Devices International Ltd.) site.

Future Technology Devices International Ltd FTDI Chip Home Welcome Products **Drivers** Welcome to FTDI Chip - offering a wide range of products Open the FTDI site. Firmware including modules, cables, and integrated circuits for USB 1 Support connectivity and display systems. FTDI is driven to Make Design FTDI site: http://www.ftdichip.com/ Android Easy and support this strategy with feature-rich products that <u>EVE</u> include technical documentation, application/software examples, <u>Sales Network</u> and royalty free USB drivers. With regional technical support throughout the world, FTDI's goal is to provide total solutions that Web Shop Newsletter reduce development risk, enhance system capabilities, and enable faster time to market. Corporate Contact Us

Note: Advance to "Install of USB Drivers" if you are using the the MCR Start-up Kit.





	No Longer Supported:		_								
			Processor Architecture							Choose D2XX Drivers according to your P	C
	Operating System	Release Date	x86 (32-bit)	x64 (64-bit)	PPC	ARM	MIPSI	MIPSIV	SH4	Previous Certified Release CitoOSC D2AAA DiffyCit's according to your i	C
	Windows 8.1	2013-10-21	2.08.30	2.08.30						200.30 VHC2 created for system.	
	Windows*	2013-08-01	2.08.30	2.08.30					•	For 64-bit version select 'setup executable	e'
					-	-	_			link in the row for the Wndows 8.1 2.08.30)
	Windows 2000	2009-10-22	2.06.00	_	Ĩ.		-		Release notes drivers.		
	64-1	nit dow	mload	link	-				1	Readile Children and a large	
4										For 32-bit version select 'setup executable	e'
										link in the row for the Windows 2.08.30	
										drivers.	
	32-bit download link										
										D2VV Drivers contain the USD Seriel	
										DZAA Drivers contain the USB Serial	
										Converter and USB Serial Port Driver.	

5	CDM v2.08.30 WHQL Certified.exe	Save the downloaded executable file.
---	------------------------------------	--------------------------------------

4.4 Install of USB Drivers and connecting the car



	Device Driver Installation Wiza	rd		
		Completing the Device D Installation Wizard	river	
		The drivers were successfully installed on th	is computer.	
4		You can now connect your device to this computer. If your device came with instructions, please read them first.		Click Finish
		Driver Name Status		
		FTDI CDM Driver Packa Ready to FTDI CDM Driver Packa Ready to	use	
		< Back Finish	Cancel	





4.5 Confirmation of COM Port







	USB Serial Port (COM2) Properties	
	General Port Settings Driver Details	
	Bits per second: 9600 💌	
	Data bits: 8	
	Parity: None	
	Stop bits: 1	
7	Flow control: None	Click OK to finish setting the COM number.
	Advanced Restore Defaults	
	OK Cancel	

4.6 Download sample code

Renesas provides a sample code which allows you to test the car is operating correctly (refer to Operation Test Manual) and begin running the car around a track (refer to Program Explanation Manual). The main code can then be used as a starting point for optimising the car – you can create your own code from scratch or continuously modify the basic code supplied.

Note: Advance to "Access Sample Code from the MCR Start-up Kit" if you are using the MCR Start-up Kit.

4.7 Access Sample Code from the Web



	esas and you relating to the Software and it supersedes any prior represence Software.	
3	greement or if you wish to request any information from Renesas please ions.)	Click Agree after reading the AGREEMENT.
	World Renesas Using Our Website Privacy 🔊 F	

	workspace_rx62t_100_eng	
	Directory: "C:\WorkSpace" Reference	
5	Ok Cancel	Select a location to save the sample code and click Ok .

4.6 Access Sample Code from the MCR Start-up Kit



	workspace_rx62t_100_eng	
3	Directory:	Select a location to save the sample code an
	Ok Cancel	click <u>Ok</u> .

4.7 Programming Procedure





	e ² C/C++ - e2studio			
	File Edit Source Refai New Open File	ktor Navigate Searc	h Run Project Window Help 89 • 63 • 63 • 1 ≪ • 1 ≪ • 1 ↔ • 0 • 0 • 0 • 0 • 0 • 0 • 1 @ 1 1 @ 1 1 @ 1 * 0 • 0 • • •	
	Close Close Al Save Save As Save All Revert Move	Ctrl+W Ctrl+Shift+W Ctrl+S Ctrl+Shift+S	2	
3	Arran Arresh Corret Lino Delinters Mort Switch Workspoor Destuit South Destuit De	F2 F5 Ctrl+P At+Enter	Click "import"	Under the file tab at the top, select 'import'.



	2 impert Browse HEW project file (.hwp)	Click 'browse' and locate the sample code folder you saved earlier. Opening this takes you to a
5	Look in: Debug My Recent Desktop Desktop	folder labelled 'kit12_rx62t'. Inside this are four folders named 'kit12_rx62t', 'kit12test_rx62t', 'sioservo1_62t' and 'sioservo2_62t'.
5	My Documents My Documents	You will need to load each file in turn. Firstly, go into the folder 'kit12_rx62t' and select the file 'kit12_rx62t.hwp'
	File name: Open My Network Files of type: *hmp Cancel	Then click Finish





11	Communications Port	Use this page to select your desired communications port/interface. All settings may be changed after the project is created. Select port: Select an Interface type to connect to the target device with. Normally this will be "Direct Connection" or simply left blank. Select Interface: Direct Connection	Choose the COM number. Click <u>Next ></u> .
		Select Interface: Direct Connection	Click <u>Next ></u> .











	FDT Simple Interface (Unsupported Freeware Version)	
	Options	
	BASIC FILE PROGRAMMING Exit	
	Device : FX600 Series Port : COM5 File Selection C Download File V User / Data Area C:\workspace\kit12_tx62t\kit12test_rx62t\Debug\k	Check User/Data Area.
	User Boot Area	
17	Program Flash Disconnect	Then click the triangle on the far right and click Browse .
	Clock Frequency (External) = 12.2900MHz, CMM = 8, and CMP = 4 Changing Baud rate volume 38400 bps Set baud rate volume 3840	
	rer Settings Appired. KAGOD Series, (C. VSETS/admin/AppBata/hotal/re	
	Attempting to finalise connection to Generic RX600 Series device	
	Connection complete	
	× *	

18	Popen Iook in: Debug Iook in: Iook in: <td>Open the kit12_rx62t.mot file. The kit12_rx62t.mot file is found in the debug folder inside the folder kit12_rx62t where you</td>	Open the kit12_rx62t.mot file. The kit12_rx62t.mot file is found in the debug folder inside the folder kit12_rx62t where you
	Image: File name: kit 12_rx62t.mot Files of type: Project Files Cancel	saved your sample code. Click Open.
19	FDT Simple Interface (Unsupported Freeware Version) Options BASIC FILE PROGRAMMING Device: RX600 Series Pot: CDM5 File Selection If User / Data Area Program Flash Disconnect Clock Frequency (External) = 12.2900MHz, CKM = 8, and CKP = 4 Changing baud rate to 38400 bps Set baud rate value = 38400 FCF Settings Applied: RX600 Series, (C:\Users\admin\AppData\Local\Te Attempting to finalise connection to Generic RX600 Series device Connection complete	Click <u>Program Flash</u> . Then program writing will begin.
	FDT Simple Interface (Unsupported Freeware Version) Options BASIC FILE PROGRAMMING Exit Device : RX600 Series Port: COM5	
	- File Selection	

	BASIC FILE PROGRAMMING Exit	
	Device : RX600 Series Port : CDM5 File Selection © Download File Ø User / Data Area C'\worksnare\kit12 rx62\kit12 rx62\kit	
20	User Boot Area Program Flash Disconnect	After programming has finished, click Disconnect.
	Operation on User Flash Loaded the Write operation module Writing image to device [0xFFFF8000 - 0xFFFF8BFF] Writing image to device [0xFFFFF00 - 0xFFFFFFF] Data programmed at the following positions: 0xFFFF8000 - 0xFFFF8FFF Length : 0x0000000 0xFFFFF00 - 0xFFFFFFFF Length : 0x00000100 3.25 K programmed in 1 seconds Image written to device	
	<►	





