

# C Compiler Package for RL78 Family [CC-RL]

Jump to Page Section: ▼

## Overview

Description

Features

Release Information

Target Devices

### Topics

- CC-RL supports the new device [RL78/G24](#) (<https://www.renesas.com/us/en/products/microcontrollers-microprocessors/rl78-low-power-8-16-bit-mcus/rl78g24-new-generation-rl78-general-purpose-microcontrollers-highest-rl78-processing-performance-and>) with highest RL78 processing performance.


[Order Now](#)

In development of embedded systems, C Compilers for RL78 Family offers the powerful optimizations for enhancing execution speed and code efficiency, and the utilities to increase productivity. Products differ depending on each integrated development environment.

## Downloads

# C Compiler Package for RL78 Family [CC-RL]

Jump to Page Section: ▼


 (</us/en/document/sws/faa-structured-assembler-v10402-cs?language=ja&r=488776>)

## FAA Structured Assembler V1.04.02 for e<sup>2</sup> studio

(</us/en/document/sws/faa-structured-assembler-v10402-e-studio?r=488776>)

EXE 7.05 MB 日本語

Software & Tools - Software Apr 20, 2023


 (</us/en/document/sws/faa-structured-assembler-v10402-e-studio?language=ja&r=488776>)

## RL78 Compiler CC-RL V1.12.01 for CS+

(</us/en/document/ucm/rl78-compiler-cc-rl-v11201-cs?r=488776>)

ZIP 64.53 MB 日本語

Upgrade - Compiler Jul 20, 2023

 (</us/en/document/ucm/rl78-compiler-cc-rl-v11201-cs?language=ja&r=488776>)

Start typing to filter results by title

All Types

Date

## Documentation

### e<sup>2</sup> studio Creating and executing build CMake project

(</us/en/document/apn/e-studio-creating-and-executing-build-cmake-project?r=488776>)

PDF 1.11 MB 日本語

Application Note

Jun 28, 2022

(</us/en/document/apn/e-studio-creating-and-executing-build-cmake-project?language=ja&r=488776>)

### Renesas Compilers Professional Editions

(</us/en/document/apn/renesas-compilers-professional-editions?r=488776>)

PDF 2.33 MB 日本語

Application Note

Mar 15, 2021

(</us/en/document/apn/renesas-compilers->

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Jump to Page Section: ▼

[\(/us/en/document/apn/rl78-family-c-compiler-package-cc-rl-application-guide-programming-techniques?r=488776\)](/us/en/document/apn/rl78-family-c-compiler-package-cc-rl-application-guide-programming-techniques?r=488776)

PDF 588 KB [日本語](#)

[\(/us/en/document/apn/rl78-family-c-](/us/en/document/apn/rl78-family-c-)

Application Note

Nov 26, 2018

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## Explore

[How-to Videos for RL78 Family -RL78 Family Software & Tool Course](#)  
(/us/en/software-tool/rl78-software-tool-course)

## Support

[FAQs : CC-RL](https://en-support.renesas.com/search/CC-RL) (https://en-support.renesas.com/search/CC-RL)

[Contact Technical Support](/us/en/support?nid=488776&issue_type=technical) (/us/en/support?nid=488776&issue\_type=technical)

[Renesas Compiler Installation Guide](/us/en/software-tool/compiler_installation_guide)  
(/us/en/software-tool/compiler\_installation\_guide)

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[Contact a Sales Representative](https://www.renesas.com/us/en/buy-sample/locations) (https://www.renesas.com/us/en/buy-sample/locations)

## Videos & Training

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Jump to Page Section: ▼

Introduction  
of Renesas  
Compiler  
License  
Types

CC-RL/CC-RX/CC-RH  
Compiler  
Tutorial -  
How to  
Use a  
(/us/en/show-video/nojs/1563141)

## CC-RL/CC-RX/CC-RH Compiler Tutorial - Introduction of Renesas Compiler License Types

▼ [Read More](#)

## i Order

When purchasing a compiler package, contact your nearest [distributor \(/us/en/buy-sample/locations\)](/us/en/buy-sample/locations).

Alternatively, Web sites for online sales are accessible by clicking on a [Buy/Quote] button in the table below.

- We offer various licenses to suit a range of needs. Refer to [Compiler Licenses \(/us/en/software-tool/compiler-licenses\)](/us/en/software-tool/compiler-licenses) for details.
- The license keys of the compiler included in the packages for each of the products are usable with either CS+ or the e<sup>2</sup> studio.  
In the Americas and Europe, use the e<sup>2</sup> studio instead of the CS+.
- The C Compiler Package no longer includes the installation medium (CD/DVD).  
Please obtain the installer from each product page.
- 1.01.00 or later versions of CC-RL support both floating licenses and annual licenses.

## License Requirements

Regardless of whether you have a license or not, all versions of CC-RL can be used for commercial purposes such as development and production. If you will be using the CC-RL beyond the restrictions on the linkage size or optimization or would prefer to use the professional edition, consider purchasing a license for CC- ^

# C Compiler Package for RL78 Family [CC-RL]

Jump to Page Section: ▼

Evaluation of the features and performance of compiler products Commercial usage	Standard edition (basic features)	Applicable restrictions Note1	V1.11.00 or earlier versions: Linkage size V1.12.00 or later versions: Optimization	—
		No restriction		●
	Professional edition (advanced features)			●
Technical support (contact)				●

● Required | — Not required

Note:

1. Applicable restrictions

- V1.11.00 and earlier versions: The linkage size is no more than 64 KB.
- V1.12.00 and later versions: The only available levels of optimization are -Onothing (debug precedence) or -Olite (partial optimization).

## Licenses for Newly Purchasing the Latest CC-RL

Give the part number from the list below to the distributor. Web sites for online sales are also accessible by clicking on a [Buy/Quote] button in the table below.

### Important

Each of the compiler packages listed below comes with a license which allows you to use the latest version of CC-RL.

# C Compiler Package for RL78 Family [CC-RL]

Jump to Page Section: ▼

			<b>Buy/Quote</b>
	standard	<b>Low price</b> RTCRL7800CB01WNR	( <a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CB01WNRqs=Znm5pLBrcAJTWT%2FAX8QFsQ%3D">https://www.mouser.com/ProductDetElectronics/RTCRL7800CB01WNRqs=Znm5pLBrcAJTWT%2FAX8QFsQ%3D</a> )
Node-Locked			
			<b>Buy/Quote</b>
	professional	RTCRL7800CA01WNR	( <a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CA01WNRqs=Znm5pLBrcALihtqBmGTRQ%3D">https://www.mouser.com/ProductDetElectronics/RTCRL7800CA01WNRqs=Znm5pLBrcALihtqBmGTRQ%3D</a> )
annual			
			<b>Buy/Quote</b>
	standard	RTCRL7800CB01WNRN1	( <a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CB01WNRN1qs=Znm5pLBrcALfcWdcsIVpwQ%3D">https://www.mouser.com/ProductDetElectronics/RTCRL7800CB01WNRN1qs=Znm5pLBrcALfcWdcsIVpwQ%3D</a> )
Floating			
			<b>Buy/Quote</b>
	professional	RTCRL7800CA01WNRN1	( <a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CA01WNRN1qs=Znm5pLBrcAIWCpVe77xHRA%3D">https://www.mouser.com/ProductDetElectronics/RTCRL7800CA01WNRN1qs=Znm5pLBrcAIWCpVe77xHRA%3D</a> )
permanent			
			<b>Buy/Quote</b>
	standard	RTCRL7800CS01WNR	( <a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CS01WNRqs=Znm5pLBrcAJ7%252Bu3sA7FIlg%3D">https://www.mouser.com/ProductDetElectronics/RTCRL7800CS01WNRqs=Znm5pLBrcAJ7%252Bu3sA7FIlg%3D</a> )
Node-Locked			
			<b>Buy/Quote</b>
	professional	<b>Popular item</b> RTCRL7800CL01WNR	( <a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CL01WNRqs=Znm5pLBrcAlglUd5YWvDnw%3D">https://www.mouser.com/ProductDetElectronics/RTCRL7800CL01WNRqs=Znm5pLBrcAlglUd5YWvDnw%3D</a> )

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Jump to Page Section: ▼

	standard	RTCRL7800CS01WNRN1	<p><b>Buy/Quote</b></p> <p>(<a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CS01WNqs=Znm5pLBrcAJY701DPo0Iw%3">https://www.mouser.com/ProductDetElectronics/RTCRL7800CS01WNqs=Znm5pLBrcAJY701DPo0Iw%3</a>)</p>
Floating			
	professional	RTCRL7800CL01WNRN1	<p><b>Buy/Quote</b></p> <p>(<a href="https://www.mouser.com/ProductDetElectronics/RTCRL7800CL01WNqs=Znm5pLBrcAK8GdPDPEFnoQ%3">https://www.mouser.com/ProductDetElectronics/RTCRL7800CL01WNqs=Znm5pLBrcAK8GdPDPEFnoQ%</a>)</p>

For multiple licenses, the end of the part number depends on the number of licenses.

- For Node-Locked licenses, L5, LA, or LT is added at the end of the part number depending on the number of licenses (5, 10, or 20).  
(For example, when the number of licenses is 5, the part number is RTCRL7800CL01WNR**L5**)
- For Floating licenses, the last numeric character "1" at the end of the part number is replaced by 5, A, or T depending on the number of licenses (5, 10, or 20).  
(For example, when the number of licenses is 5, the part number is RTCRL7800CL01WNRN**5**)

## License for Upgrading from the CC-RL Standard Edition to the Professional Edition

Give the part number from the list below to the distributor. Web sites for online sales are also accessible by clicking on a [Buy/Quote] button in the table below.

# C Compiler Package for RL78 Family [CC-RL]

Jump to Page Section: ▼

Period	of usage	Part Number	Mouser	Av
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## Buy/Quote

permanent	Node-Locked	RTCRL7800CU01WNR	( <a href="https://www.mouser.com/ProductDetail/Renesas-Electronics/RTCRL7800CU01WNR?qs=Znm5pLBrcAJPY70zbN26AQ%3D%3D">https://www.mouser.com/ProductDetail/Renesas-Electronics/RTCRL7800CU01WNR?qs=Znm5pLBrcAJPY70zbN26AQ%3D%3D</a> )
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Note:

1. Node-Locked license for CC-RL standard version (permanent) is required.
2. This form of upgrade (of the edition) is only for node-locked licenses; it will not apply to floating licenses and annual licenses.

**For multiple licenses, the end of the Part Number changes depending on the number of licenses.**

- For Node-Locked licenses, L5, LA, or LT is added at the end of the part number depending on the number of licenses (5, 10, or 20).  
(For example, when the number of licenses is 5, the part number is RTCRL7800CU01WNR**L5**)

## Related Services

### Compiler Qualification (Service to Support Functional Safety)

For customers who are using a compiler for Renesas devices, we offer a support service for the qualification of confidence that development tools meet the requirements of ISO 26262, Road Vehicles Functional Safety. This service incurs a charge.

[Compiler Qualification \(/us/en/software-tool/compiler-qualification\)](/us/en/software-tool/compiler-qualification)

### Compiler Maintenance Service (Agreement for Maintenance Service for a Specified Compiler Version)

Renesas offers a maintenance service for a specific compiler version for customers who are using the compiler over the long term. This service incurs a charge.

[Compiler Maintenance Service \(/us/en/software-tool/compiler-maintenance-service\)](/us/en/software-tool/compiler-maintenance-service)

## Assistance with Compiler Migration



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Jump to Page Section: 

changing compilers, such as differences in options and in extended language specifications.

[Migrating between Integrated Development Environments](#)

[\(/us/en/software-tool/migration-tools-ide\)](/us/en/software-tool/migration-tools-ide)

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## Top Tools

[e<sup>2</sup> studio \(/us/en/software-tool/e-studio\)](/us/en/software-tool/e-studio)

[CS+ \(/us/en/software-tool/cs\)](/us/en/software-tool/cs)

[Renesas Flash Programmer \(/us/en/software-tool/renesas-flash-programmer-programming-gui\)](/us/en/software-tool/renesas-flash-programmer-programming-gui)

[MCU / MPU Selection Tool \(/us/en/products/microcontrollers-microprocessors/mcu-mpu-selection-tool\)](/us/en/products/microcontrollers-microprocessors/mcu-mpu-selection-tool)

[iSim:PE Offline Simulation Tool \(/us/en/software-tool/isimpe-offline-simulation-tool\)](/us/en/software-tool/isimpe-offline-simulation-tool)

[PowerCompass Multi-Rail Design Tool \(/us/en/software-tool/powercompass-multi-rail-design-tool\)](/us/en/software-tool/powercompass-multi-rail-design-tool)

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Jump to Page Section: 

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