

Small-footprint realtime OS

RL78 Family Real-time OS

Two types available: μ TRON-compliant and FreeRTOS

The RL78 Family provides two OSs: a highly-proven μ TRON-compliant realtime OS (embedded), and FreeRTOS for IoT devices that can be connected to Amazon Web Services (AWS).

RI78V4 V2 Real-time OS for RL78 Family

[Detail](http://www.renesas.com/ri78v4_rl78) www.renesas.com/ri78v4_rl78

Version 2 of RI78V4, the μ TRON-compliant realtime OS for RL78 Family, is compact, yet, provides excellent realtime performance with a variety of service calling, thus achieving an embedded system in a high-quality, realtime, multi-task environment. Versatile functions linked with the CS+ integrated development environment will also make your development more efficient.

Features

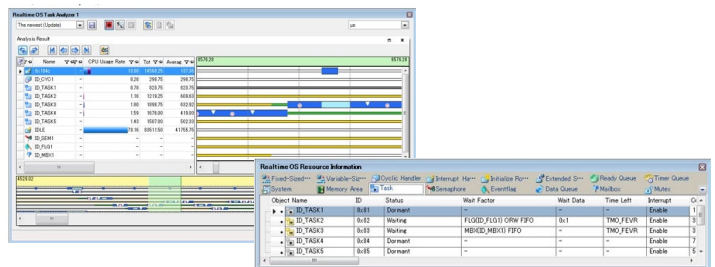
- Rich service calls
- High portability
- Memory saving
- Smooth system structuring using the configurator
- OS debugging function
- Excellent real-time performance (interrupt response time, task switching time)
- Embedding only necessary functions (by selecting service calls to be used)

Applicable tools IDE : CS+ Compiler : C Compiler Package for RL78 Family

[Trial Software](#) www.renesas.com/ri78v4_rl78_trial

Functions linked with CS+

Task Analyzer, Resource Information window, etc.



FreeRTOS, realtime OS from Amazon Web Services

FreeRTOS, software development for IoT devices that can connect to Amazon Web Services (AWS), can be used in conjunction with AWS-authorized Renesas boards for prototype development of various applications.

Data sheet, start guide, and source code for AWS-authorized boards

RL78/G14 Fast Prototyping Board + SX-ULPGN

<https://devices.amazonaws.com/detail/a3G0h00000EU3d2EAD/RL78-G14-Fast-Prototyping-Board>

RL78/G23-128p Fast Prototyping Board + SX-ULPGN

<https://devices.amazonaws.com/detail/a3G8a00000E2YwBEAV/RL78-G23-128p-Fast-Prototyping-Board>

RL78/G14
Fast Prototyping Board



RL78/G23-128p
Fast Prototyping Board



Video

We provide various tutorial and tip videos related to development environments for the RL78 Family, including getting-started videos for beginners.

www.renesas.com/rl78-how-to-video

FAQ

en-support.renesas.com/knowledgeBase



Community

community.renesas.com

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