RENESAS

Small-footprint realtime OS
RL78 Family Real-time OS

Two types available: µTRON-compliant and FreeRTOS

The RL78 Family provides two OSs: a highly-proven µITRON-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 www.renesas.com/ri78v4_rl78

Version 2 of RI78V4, the µITRON-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.
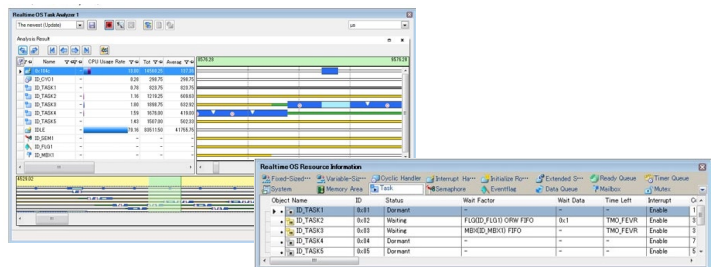
Features

- 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

Functions linked with CS+
Task Analyzer, Resource Information window, etc.

☁ **Trial Software   www.renesas.com/ri78v4_rl78_trial**

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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