**Free RTOS**

General:

Free RTOS is an open-source real-time operating system (RTOS) kernel for embedded devices.

The kernel type is Microkernel and it has a MIT-License.

It is designed to be small and simple and it is written in C and consists of only 3 C-Files.

It provides methods for multiple threads or tasks, mutexes, semaphores, and software timers.

It is intended for hobbyists and professional developers who work on commercial products.

Features:

* Tick-less option for low power applications
* Book and reference manuals
* Small memory footprint, low overhead, fast execution
* Scheduler can be configured for both preemptive or cooperative operation
* Coroutine support
* Trace support through generic trace macros

Official Website: <http://www.freertos.org>

Developer: Real Time Engineers Ltd.