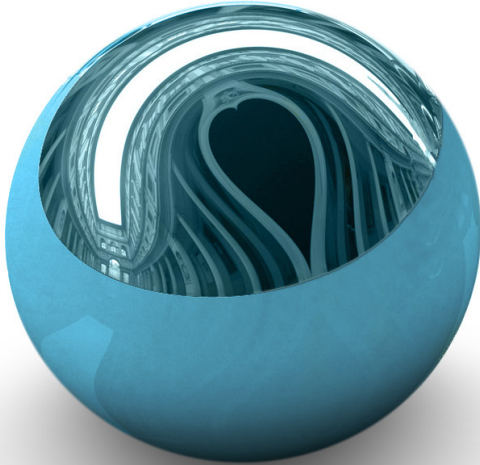


OPENRTOS®



OPENRTOS®

Features & Licensing

OPENRTOS® from WITTENSTEIN High Integrity Systems is the commercially supported and licensed version of the highly successful FreeRTOS™, the most popular kernel available for embedded micro-controllers.

OPENRTOS has minimal ROM, RAM and processing overhead. Typically an OPENRTOS kernel binary image will be in the region of 4K to 9K bytes. OPENRTOS is also very simple to use with the core of the RTOS kernel being contained in only 3 C source files.

OPENRTOS is available integrated with USB, FAT and TCP/IP, providing a complete embedded platform.

Benefits of licensing OPENRTOS

- Removes the FreeRTOS modified GPL conditions;
- Commercial indemnification including explicit exclusion of open source code;
- Confidentiality;
- Professional support;
- Support for middleware through our CONNECT MIDDLEWARE product.



An **OPENRTOS** licence gives peace of mind. WITTENSTEIN takes responsibility for validating that the code is working with your chosen processor / compiler combination and delivers a working demo project with the source code. Developers benefit from a 12 month warranty that covers maintenance, updates and professional technical support.

The licensee is able to maintain confidentiality by avoiding the FreeRTOS licence requirement to acknowledge the kernel is being used in their product. The licensee also gains legal protection as WITTENSTEIN provides full third party IP infringement indemnification.

Key Features of OPENRTOS

- Commercially licensed version of FreeRTOS;
- Supplied as source code, with demo project;
- Small footprint, <9kB ROM, 200bytes RAM (typical) on Cortex-M;
- Supports more than 30 embedded architectures;
- Based on high quality source code downloaded more than 8,500 times per month on average during 2012, resulting in an incredibly stable and high quality product;
- Integrated middleware components available;
- WITTENSTEIN's 'STATEVIEWER' kernel aware debugger supplied free.

Development Support

WITTENSTEIN's 'STATEVIEWER' kernel aware plug-in is available as a free of charge download from <http://www.HighIntegritySystems.com/>

This extension is available for Eclipse based IDEs and IAR Embedded Workbench. It delivers kernel awareness, including snapshots of the task and resource states, and the ability to check the stack usage of each task.

OPENRTOS supports a large number of IDEs, compilers and development boards from leading companies including IAR, Keil, Rowley, Code-Red, and Texas Instruments, plus Eclipse integrations.

Microcontroller Support

OPENRTOS supports a wide range of ARM Cortex-M3, Cortex-M4, Cortex-M4F and ARM7/9 microcontrollers from various manufacturers.

The list of supported microcontrollers currently includes:-

- Altera NIOS II
- Atmel AVR32, AT91
- Atmel SAM3, SAM4, SAM7, SAM9
- Cypress PSoC5
- Energy Micro EFM32
- Freescale Kinetis, Coldfire V1 & Coldfire V2
- Fujitsu FM3, MB91460, MB96340
- Infineon TriCore, XMC4000
- Microchip dsPIC, PIC24, PIC32
- Microsemi SmartFusion
- NXP LPC11xx, LPC13xx, LPC17xx, LPC18xx, LPC2xxx, LPC43xx
- Renesas RX600, RX62N, RX63N, RX210, SuperH, H8/S, RL78, V850ES, 78K0R
- STMicro STM32, STR7, STR9
- Texas Instruments Hercules Safety Controllers
- Texas Instruments Stellaris, MSP430, MSP430X
- Xilinx Microblaze, PowerPC

Royalty Free Licensing

OPENRTOS is supplied as source code under a straightforward perpetual licence with no runtime fees or royalties. Customers receive documentation and our full support after delivery.

