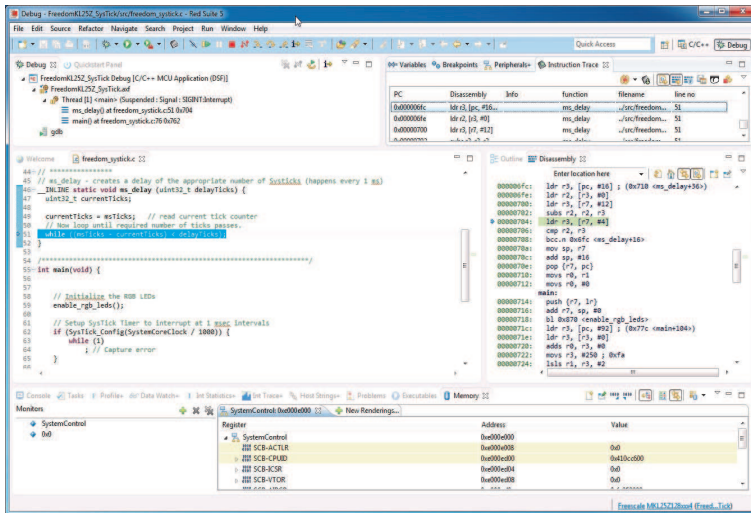


Red Suite 5™



Software Development toolkit for ARM®-based Microcontrollers



New in Red Suite 5

- Cortex-M0+ support
- Embedded Trace Buffer (ETB)
- Micro Trace Buffer (MTB)
- Latest GNU ARM compilers
- Latest version of Eclipse
- Cross platform:

Windows, Linux and Mac OS X



Priced at just \$999

Complete C/C++ IDE

- Latest Eclipse-based IDE with many ease-of-use enhancements
- IDE can be further enhanced with Eclipse plugins — many free!
- Command-line tools included for integration into build, test and manufacturing systems
- CVS source control built in; Subversion, TFS, Git and others available for download

Industry standard GNU toolchain, including

- C and C++ compilers, assembler and linker
- Converters for SREC, HEX and binary

Fully featured debugger supporting JTAG and SWD

- Built-in flash programming
- High-level and instruction-level debug
- Full display of registers and on-chip peripherals
- Supports Red Probe+, LPC-Link, Silicon Labs Debug Adapter, TI ICDI, Freescale Freedom
- Multiple devices on JTAG scan-chain

Library support

- **Redlib**: a small-footprint embedded C library
- **Newlib**: a complete C and C++ library
- CMSIS¹ libraries and source code

No code size limits

Device-specific support for many ARM-based MCUs

- Freescale, NXP, Silicon labs, ST Micro and TI
- Cortex-M0, M0+, M3, and M4 (including FPU)
- Some ARM7TDMI and ARM9 devices
- Automatic generation of linker scripts for correct placement of code and data into flash and RAM
- Startup code and device initialization
- No assembler required with Cortex-M MCUs

Red Trace enables instruction-level debugging

- Profile tracing²
- Interrupt trace and display²
- Datawatch trace²
- Instruction trace via Embedded Trace Buffer (ETB)³ and Micro Trace Buffer (MTB)⁴

Red State for state machine design

- Graphically design your state machines
- Generates standard C code
- Configures NXP State Configurable Timer (SCT)

Support included from Code Red experts

- One year included

[1] CMSIS (Cortex Microcontroller Software Interface Standard).

[2] Requires a Cortex-M3 or Cortex-M4 based MCU.

[3] ETB is a feature of some Cortex-M based MCUs.

[4] MTB is a feature of Cortex-M0+ based MCUs.

Code Red Technologies Inc.: 648 Cheney Street, San Francisco, California, 94131
Code Red Technologies Ltd.: 6b Lower Court, Copley Hill Business Park, Cambridge, CB22 3GN, UK

Tel: +1 415 349 4601
Tel: +44 1223 853 753

Email: info@code-red-tech.com Web: <http://www.code-red-tech.com>

© 2012 Code Red Technologies. All brand names or product names are the property of their respective holders. Neither the whole nor any part of the information contained in, or the product described in this document may be adapted or reproduced in any material form except with the prior written permission of the copyright holder. The product described in this document is subject to continuous improvement and development. This document is intended only to provide information to the reader about the product.

Red Suite family



Red Suite 5 is the most powerful and versatile IDE and includes all the tools required to get your application working in minutes rather than weeks.

Red Suite 5 is available for Windows, Linux or Mac and contains support for Freescale, NXP, Silicon Labs, ST Micro and Texas Instruments MCUs.

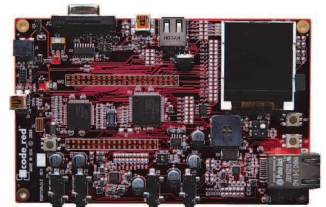
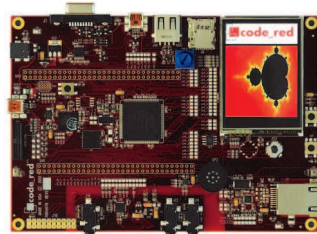
Red Suite 5 has no download limits.

Red Suite NXP Edition is a low-cost toolkit with a choice of code size limits, which is specifically tailored for NXP users.

LPCXpresso IDE is a **free** IDE provided with NXP LPCXpresso boards. It can be upgraded to Red Suite NXP Edition, which provides users with enhanced tools.

Precision32 IDE is a **free** IDE provided with Silicon Labs Precision32 MCUs. It can be upgraded to provide access to the full Red Suite feature set (including **Red Trace**) and higher download limits.

	Red Suite	Red Suite NXP Edition	LPCXpresso IDE	Precision32 IDE
Price	\$999 [2] [3]	\$256/ \$512 [3]	Free	Free
Download limit	Unlimited	256KB / 512KB	128KB	256KB
Host platforms	Windows, Linux, and Mac OS X	Windows	Windows, Linux and Mac OS X	Windows and Linux
C/C++ support	C/C++	C/C++	C	C/C++
JTAG/SWD interfaces supported	Red Probe+, Redlink, RDB-Link, LPC-Link, TI ICDI, Silabs USB Debug Adapter	Red Probe+, Redlink, RDB-Link, LPC-Link	Red Probe+, Redlink, RDB-Link, LPC-Link	Red Probe+, Silabs USB Debug Adapter
Red Trace	Yes [1]	Yes [1]	No	No
ETB/MTB support	Yes	Yes	ETB	No
Red State	Yes	Yes	Yes (SCT only)	No
Evaluations	Yes	No	No (product is free!)	No (product is free!)
Support	1 year	90 days	Web-based forum	Via Silabs
Freescale Kinetis				
Kinetis K and Kinetis KL	Yes	No	No	No
NXP MCU Families				
NXP LPC11/12/13/17/18	Yes	Yes	Yes	No
NXP LPC21/22/23/24	Yes	Yes	LPC2109 / 2134 / 2142 / 2362 only	No
NXP LPC2900/3100/3200	Yes	Yes	LPC2929 / 3130 / 3250 only	No
NXP LPC4000	Yes	Yes	Yes	No
Silicon Labs Families				
SIM3U1xx/ SIM3C1xx	Yes	No	No	Yes
ST Micro Families				
STM32F0/F1/F2/F4 and L1	Yes	No	No	No
TI MCU Families				
TI Stellaris LM3S and LM4F	Yes	No	No	No



Red Suite and Red Probe+ provide a complete development and debug environment for ARM-based microcontrollers.

Code Red also sells development boards for NXP's LPC17xx and LPC40xx series chips that allow you to quickly test your application concepts on proven hardware.



[1] Red Trace is only available with Red Probe+, TI ICDI or compatible debug interfaces.
 [2] Red Suite is available in single-seat or multi-seat licenses.
 [3] Education discounts are available.