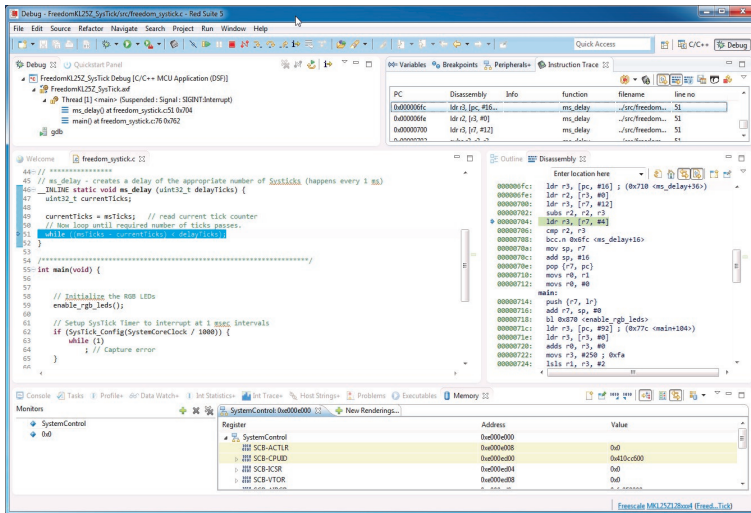


Red Suite 5™



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.

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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.

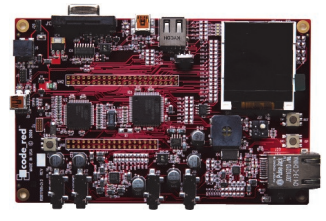
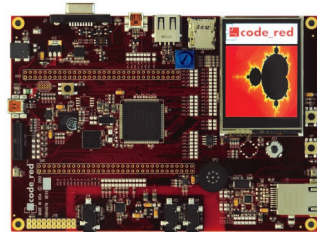
Red Suite 5 has no download limits.

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.