



EWARM, STR91X-DK/IAR

IAR development tools for STR7 and STR9 microcontrollers

Data Brief

IAR's Embedded Workbench® for ARM

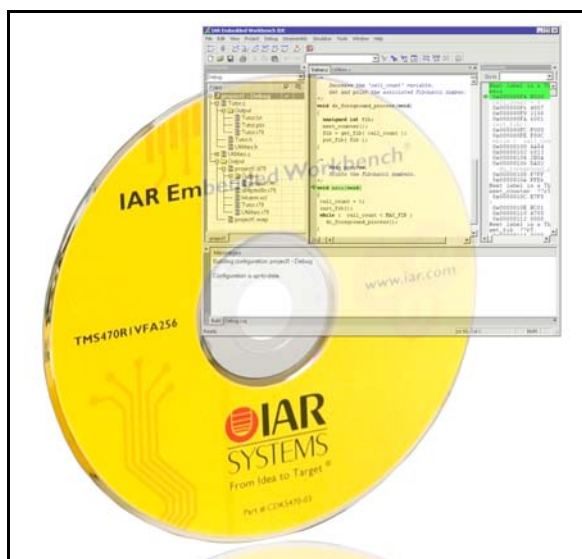
(EWARM) is an easy-to-use, powerful integrated development environment for developing applications for the STR7 and STR9 ARM™ core-based microcontrollers. Based on solid technology, it seamlessly integrates a complete range of software tools in a comprehensive toolkit, recognized for its efficient code generation and unique debugging properties. It supports a range of debugging tools and in-circuit emulators including IAR's J-Link and J-Trace. EWARM is available in full and "baseline" (code-size limited) versions.

EWARM is also available as part of the STR91x Advanced Development Kit (STR91X-DK/IAR) – a complete tool package that includes EWARM-BL512, evaluation board and J-Trace, which allows developers to take full advantage of the STR9's Embedded Trace Macrocell™ for execution trace during application debugging.

Features

All versions of EWARM include:

- **C-SPY** – IAR's state-of-the-art debugging interface featuring a full range of standard debugging features and support for a wide range of in-circuit debugging/programming and trace tools such as IAR's J-Link, J-Trace and tools from other third-parties such as ARM, Ashling, Macraigor, Signum and more...
- **IAR C/C++ Cross Compiler** – fully optimizing C/C++ compiler for ARM™ core-based MCUs.



In addition to EWARM-BL512 with additional features such as flash downloader and sample applications, users of the STR91x Advanced Development Kit also receive:

- **J-Trace** – In-circuit debugger/programmer, featuring configurable trace capability with time stamp, filtering and triggers. Features USB host interface and industry standard JTAG interface to the application board.
- **STR912F Evaluation Board** – Application board designed for rapid, easy evaluation of STR91xF peripherals including Ethernet, USB, CAN, I2C, SPI, UART and ADC.

The STR91xF Advanced Development Kit also allows development and debugging of applications for STR7 microcontrollers.

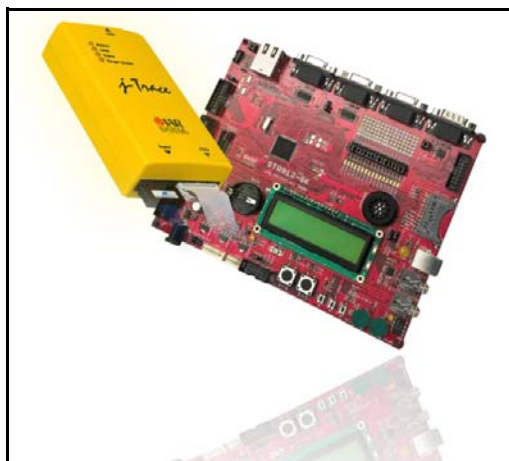
| EWARM Editions | C/C++ compiler | C-SPY debug software | Misra C checker | 1-year support and updates | Plug-ins for RTOS supports ¹ |
|------------------------|------------------------|----------------------|-----------------|----------------------------|---|
| EWARM standard edition | Unlimited | Yes | Yes | Yes | Yes |
| EWARM-BL | 256K code-size limited | Yes | No | No | Yes |
| EWARM-BL512 | 512K code-size limited | Yes | No | No | Yes |

1. EWARM includes built-in plug-ins for supports of RTOS that have been ported to ST's ARM core-based MCUs such as CMX-RTX, CMX-Tiny+, uC/OS-II and Segger embOS. For a complete list of built-in and available plug ins refer to www.iar.com.

Ordering information

The order codes below are provided for ordering EWARM and IAR Advanced Development Kits from STMicroelectronics. IAR kits and other tools for STR7 and STR9 developers can also be ordered directly from IAR using IAR's ordering codes. For more information, go to www.iar.com.

EWARM is a software package and does not include debugging hardware. The J-Link, IAR's in-circuit debugger and programmer is available with the IAR KickStart™ Kit, or can be ordered separately from IAR. IAR's J-Trace is included in the STR91xF Advanced Development Kit.



Order codes

| Order codes | EWARM editions | License type | Debugging hardware | Evaluation Board |
|---------------------------------------|------------------------|-------------------|--------------------|--------------------------|
| Software packages | | | | |
| STR-EW/IAR | EWARM standard edition | Locked to host PC | No | No |
| STR-EW/D/IAR | EWARM standard edition | License dongle | No | No |
| STR-EW/BL/IAR | EWARM-BL (256K) | Locked to host PC | No | No |
| STR-EW/BL/D/IAR | EWARM-BL (265K) | License dongle | No | No |
| Hardware/software tool bundles | | | | |
| STR91X-DK/IAR | EWARM-BL512 | Locked to host PC | J-Trace | STR912F evaluation board |

For more information...

The microcontroller support site, www.st.com/mcu provides a number of free tool and microcontroller support features including software downloads, on-line product selector, user groups and complete documentation.

1 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 06-Sep-2006 | 1 | Initial release. |

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