

CoolRIDE™

The Integrated Development Environment for the 8-bit CoolRISC® microcontroller family

General Description

CoolRIDE is the Integrated Development Environment (IDE) matched with CoolRISC's 8-bit microcontroller family and its series of XE8000 microcontrollers. CoolRIDE is based on the GNU tools. The complete set of functions required for software development is available through a Graphic User Interface (GUI). CoolRIDE allows for software development and verification as well as software and hardware simulation. CoolRIDE runs on Windows 9x/NT based systems.

Key Product Features

- Complete Graphic User Interface
- Assembler
- ANSI C Compiler
- Linker
- Librarian
- Source Level Debugger
- Optional Software Co-Simulator
- Hardware Real-Time Emulator
- Hardware Starter Kit

Deliverables

- CoolRIDE development software (CD-ROM)
- CoolRISC XE8000 family hardware starter kit
- Hardware real-time emulator card
- Peripheral card
- Cables, connectors etc..
- Complete documentation
- On-line support
- Up-to-date FAQ on the web site

System Requirements

CoolRIDE will run on any Windows 9x/NT based system. By using CoolRIDE, there are no restrictions in processor speed and RAM size. Performance however will increase with more powerful host systems.

Operating systems	Windows 95/98 Windows NT 4.x
Required free disk space	82MB
Package	CD-ROM
Required interface for the hardware emulator	RS232 or SCSI

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Integrated Development Tools

The CoolRIDE environment provides all the necessary functions to drive the command line tools based on GNU.

Assembler

This powerful macro assembler supports the complete instruction set for the CoolRISC microcontroller family.

C Compiler

The ANSI C compliant compiler integrates extended features to address the CoolRISC 816 core. It enables in-lining of assembler instructions. Two libraries have been developed for this compiler: "lib c" for standard functions and "lib m" for mathematical functions.

Linker

The linker generates ELF binary formats as well as Intel HEX, SREC. Examples of the types of powerful link directives that can be used are as follows: the CoolRISC's description of the memory map, definition of sections for data and program relocation.

Librarian

Allows to build re-useable libraries of objects/functions/modules that can be linked with other applications.

Source Level Debugger

A symbolic debugger enables debugging work of the CoolRISC based application at a source code level. Trouble shooting can be conducted either through a built-in CoolRISC instruction set simulator or via the hardware real-time emulator. Extended break points and trace capabilities are also available in emulation mode.

Co-Simulator

The optional co-simulator is based on the Mentor Graphics tools. It entirely simulates the complete design (CoolRISC core plus custom peripherals) in software.

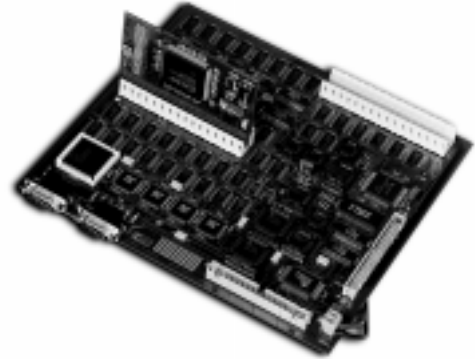


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Documentation and Support

A complete set of documentation is supplied with CoolRIDE. In addition, regularly updated FAQs can be found on the web. Direct support is also available through our engineering team.



Hardware Emulator and Starter Kit

The starter kit equipped with its CoolRISC based IC enables immediate start with software development. The hardware emulator is linked to the host system via RS232 or SCSI. Applications can be run and debugged in real-time. The hardware emulator can be extended with a peripheral card enabling dedicated I/O emulation.

Graphic User Interface

CoolRIDE provides a user friendly graphical development environment.

Colored Editors

The syntax is displayed in different colors to enable a clear understanding of the code structure.

Projects and Settings Management

Source files are organized by category. Using both file classification (including file dependency management) and the associated settings, the application can be built either completely or incrementally

Performance settings

Various settings and optimization criteria are available for the user to choose from: i.e Code can be optimized for speed or size.

Debugging Interface

Commands such as: Stepping, Breakpoints, Watches, Call Stack, Local Variables etc.. are all presented in a symbolic fashion. More complex commands can be directly entered through a dedicated debugger interface window.

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