



EM 8-bit Microcontrollers Tools Development

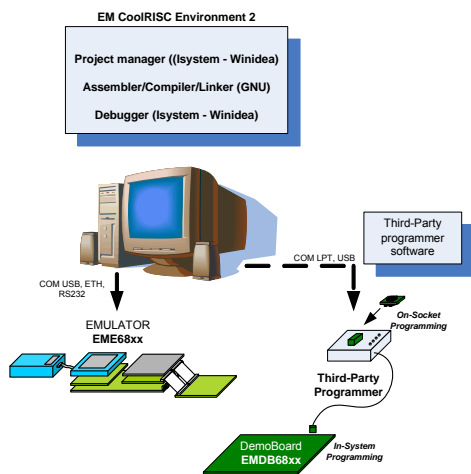
INTRODUCTION

The 8-bit EM Microelectronic microcontroller tools development for the 8-bit EM68xx Microcontrollers are based on EM CoolRISC Environment 2 Integrated Development Environment (IDE) software and complete set of hardware tool.

This tool suite is suitable for:

- Software development
 - ✓ Project handling
 - ✓ Editing, Compiling, Assembling and Linking
 - ✓ Debug
- Hardware Emulation
- Flash Microcontroller programming
- Evaluation and testing with DemoBoard

This Development tool set consists of:



EM Microelectronic-Marín SA Deliverables

- EM CoolRISC Environment 2 (CD or website)
- Hardware Emulator EME68xx (Isystem based)
- Programmer (Third-Party)
- DemoBoard EMDB68xx
- Cables and connectors
- Documentation

System Requirement

- Windows 95/98 / NT 4.0 / 2000 / XP
- Required free disk space : 100MB
- 64MB RAM

DEVELOPMENT FLOW

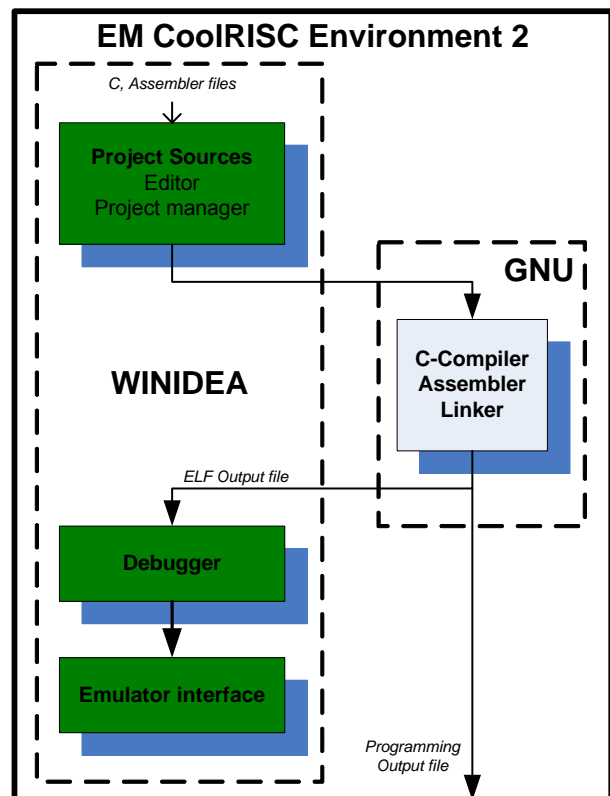
EM CoolRISC Environment 2

The EM CoolRISC Environment 2 is based on WinIDEA™ IDE Software from Isystem GmbH.

The user can write his code, run the compiler, assemble, link and debug his software within one same tool. The Assembler, C compiler, Linker are based on GNU tools for CoolRISC

Features:

- Windows-based development tools
- Graphic user interface
- Integrated GNU compiler
- Source level debugging for C, ASM
- Multi-Source file editor
- Embedded Debugger
- Emulator interface
- Free and no limitation





EM68xx Tools

■ Hardware Emulator

The hardware Emulator EME68xx allows to run your application and benefit of all the powerful debug features available. The EME68xx is based on high-end and powerful Isystem platforms. The EME68xx support all EM68xx target and is software upgradeable.

Features:

- Unlimited breakpoints
- Conditional/Complex breakpoints
- Trace
- Code / access coverage, Profiling
- Logic analyzer
- Real-Time Emulation
- Several Communication interfaces
- I/O port level shift-able
- Connection to external application

■ Demoboard

The EMDB68xx demoboard allow evaluating the EM68xx and testing your application.

Features:

- Microcontroller samples EM68xx
- Multi-configuration (switch, jumper)
- Keys, buttons, led, user area
- External IO pulls
- In-System-Programming support
- RS232 transceiver for Serial Com implementation



■ Third-Party programmer

The programmer allows burning your EM68xx Flash samples.

Features:

- LPT, USB
- CRC check
- Driven by Third-Party software
- In-System-Programming
- On-Socket-Programming
- Packages programming adaptor available

Third-party programmer supplier

- Elnec Company (Universal programmer) support EM68xx Microcontrollers
<http://www.elnec.com>
- Xeltek Company (Universal programmer) support EM68xx Microcontrollers
<http://www.xeltek.com>

ORDERING INFORMATIONS AND DELIVERY

Designator	Reference	Delivery
In-Circuit Emulator for EM68xx	EME68xx (Please specify the circuit Number)	EM Microelectronic
Demo Board for EM68xx	EMDB68xx (Please specify the circuit Number)	EM Microelectronic
EMCoolRISC Environment 2 Free	EMCoolRISC Environment 2	EM Microelectronic (Website free download)
THIRD-PARTY Tools	—	EM Microelectronic or the Third-party company

EM Microelectronic-Marin SA reserves the right to change the emulator specifications without notice at any time. You are strongly urged to ensure that the information given has not been superseded by a more up-to-date version.