

**CODEWARRIOR™  
DEVELOPMENT SYSTEM  
FOR MSC8101ADS**



**OVERVIEW**

The StarCore® development system enables developers to start writing and debugging code for StarCore DSP applications in minutes, instead of weeks. This complete system provides everything required to get started, including CodeWarrior development software, StarCore processor-based development board, and all cables, wiring and accessories.

The StarCore development system eliminates time previously wasted selecting parts and software, determining compatibility, placing multiple orders, and attempting to make disparate components work together. With just one order, you'll receive a complete system, pre-configured for compatibility, with everything you need to develop and debug code on the target.

Setting up the system to start writing code is so easy, even a child can do it. In fact, an 11-year-old set up the system components in under 15 minutes. If a kid can have it ready to go that fast, imagine how quickly you can do it.

**HIGHLIGHTS: CODEWARRIOR FOR STARCORE® DSP**

- Intuitive IDE that you only have to launch once
- ANSI C compiler for creating highly optimized code
- Integrated profiler that enables you to profile real-time behavior
- Project Manager component to configure and manage complex projects
- Editor with customizable syntax, coloring and styling
- Graphical source-level debuggers to debug applications faster than ever

**HIGHLIGHTS: MSC8101ADS DEVELOPMENT BOARD**

- Integrated MSC8101 network-ready DSP
- Complete on-board resources including large on-chip memory and flash memory
- Ideal for networking applications
  - 3G wide-band wireless infrastructure systems
  - IP telephony systems
  - Multichannel modem banks and xDSLs



Heavy duty tool case for easy transport and storage

CodeWarrior StarCore Development Tool Suite (full license)

Complete documentation package and Quick Start guides

Multi-function tool

CodeWarrior T-shirt

All the necessary power supplies, global plug adapters & cables

Host-Target Interface connection device

MSC8101ADS Evaluation Board

**INDUSTRY-LEADING CODEWARRIOR DEVELOPMENT SOFTWARE**

The StarCore Development System includes the award-winning CodeWarrior IDE. Designed expressly to take advantage of the advanced capabilities of the StarCore architecture, CodeWarrior for StarCore DSP Development provides the ideal set of software development tools for target applications based on StarCore DSPs.

**STARCORE DSP-BASED DEVELOPMENT BOARD**

The MSC8101ADS development board is also included in the StarCore Development System. Built around the high-performance MSC8101 StarCore network processor, the development board is the perfect platform for developing network applications based on MSC8101 devices.

**SPECIFICATIONS: CODEWARRIOR FOR STARCORE DSP**

**Supported Languages**

- Assembly
- C for SC140 and SC100 cores

**Host Development Platforms**

- Windows® 98/2000, Windows NT® 4.0
- Solaris 2.6 and 7

**Supported Targets**

- Instruction-set simulator
- MSC8101

**Target Connections**

- Windows
  - Parallel Port
  - PCI
  - CodeWarrior HTI
- Solaris
  - PCI
  - CodeWarrior HTI

**SPECIFICATIONS: MSC8101ADS DEVELOPMENT BOARD**

**MSC8101 StarCore Network Processor**

- Internal clock, 300 MHz @ 1.5V
- CPM clock, 150 MHz

**PowerPC (60x) Bus**

- 100 MHz external bus clock frequency
- 4 GB (32 address lines)

**Total Address Range**

- 256 KB external (18 address lines)

**Data Bus Width**

- 64 bit without Host Interface (HID16)
- 32 bit with HID 16

**Flash Memory Mounted on SIMM**

- 8 MB, 32 bits wide, expandable to 32 MB

**Synchronous DRAM 100 MHz soldered (nonbuffered)**

- 16 MB, 2 by 2 MB by 32 bit (reconfigurable to 32 bits wide by 8 MB, with 16 MB expansion option)

**SYSTEM REQUIREMENTS**

**Windows**

- 266 MHz Intel® Pentium® class processor or AMD-K6® class microprocessors
- Microsoft Windows® 98/2000, Windows NT® 4.0
- 128 MB RAM recommended
- 100 MB hard drive space
- Parallel port or CodeWarrior HTI
- CD-ROM drive for installation

**Solaris**

- Ultra SPARC® class workstation
- Solaris 2.7 or Solaris 7
- 128 MB RAM recommended
- 250 MB disk space
- CD-ROM drive for installation
- Open PCI slot or CodeWarrior HTI

**MOTOROLA PART NUMBERS**

- StarCore Development System  
CWDSSTARWIN

<sup>1</sup>These specifications conform to the product design; they have not been tested with actual boards.

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