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
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
  CWDSSSTARWIN

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