



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





MOTOROLA
intelligence everywhere™

digital dna™

SOFTWARE AND DEVELOPMENT TOOLS

**QUARTER 1, 2002
SG1011/D REV 0**

WWW.MOTOROLA.COM/SEMICONDUCTORS

What's New!

HOW THIS SELECTOR GUIDE IS ORGANIZED

This selector guide is divided into sections that support other selector guides in this series. Currently, these sections include the following:

- 32-Bit Embedded Processors (SG1001/D)
- Analog (SG1002/D)
- Digital Signal Processors (SG1004/D)
- Microcontrollers (SG1006/D)
- Network And Communications Processors (SG1007/D)

Within each section, information is divided into the following categories (where applicable):

- Software Tools
- Hardware Tools
- Development Systems
- Cables and Host-Target Interfaces
- Third Party Tools

32-BIT EMBEDDED PROCESSORS

SOFTWARE TOOLS

68K, ColdFire, MPC5xx, PowerPC ISA, and MCORE — Metrowerks

Product	Description	Target Support	RTOS Support	Board Support	Host-Target Interface	Host Platforms	Language Support	IDE Version	Compiler Output Formats
CW68KCF	CodeWarrior Software Development Tools for 68K/ColdFire	68xxx; 683xx; MCF5206e; MCF5307; MCF5407; MCF5272		DragonBall EZ (v1, v2, v3); DragonBall VZ; ADS68360; M5206eLite and M5206eC3; M5307C3; M5407C3; M5272C3	MetroTRK; P&E Microcomputer CPU32 BDM Cable; P&E Microcomputer ColdFire BDM Cable	Windows 95/98/2000/NT	C/C++, 68000 Assembly, ColdFire Assembly	4.1.0.3	ELF/DWARF
CWMP5XX	CodeWarrior Software Development Tools for MPC5xx	MPC555; MPC 560; MPC561; MPC563; MPC565	OSEK	Axiom CME555; Axiom CMD565	Abatron BDI 2000; P&E	Windows 95/98/2000/ ME/NT	C/C++, EC++, PowerPC ISA Assembly	4.2.5	ELF/DWARF 1.0; Motorola S-Record
CWEPPC	CodeWarrior Software Development Tools for PowerPC ISA	MPC505, MPC509, MPC555, MPC821, MPC823, MPC850, MPC860, MPC8240, MPC8260, PPC603, PPC603ei, MPC7400	QNX Neutrino; RTXC from Lineo; Embedix SDK from Lineo, Precise MQX, ATI Nucleus		MetroTRK, Applied Microsystems CodeTAP, Applied Microsystems PowerTAP, Applied Microsystems WireTAP Run Control Interface (JTAG and BDM (8xx only), Macraigor Systems COP Raven (for MPC82xx and PPC6xx), Macraigor Systems BDM Raven (for MPC8XX, MPC5xx), Abatron BDI 2000 (5xx, 8xx)	Windows 95/98/2000/NT	C/C++, EC++, and PowerPC ISA Assembly	4.2.1	ELF/DWARF 1.0; Motorola S-Record
CWMCORE	CodeWarrior Software Development Tools for MCORE	M2xx/3xx family processors		MMC2001; MMC2075/2080; MMC2107, MMC2103, MMC3401	MetroTRK; Metrowerks EBDI	Windows 95/98/2000/NT	C/C++, Assembly	4.1	

32-BIT EMBEDDED PROCESSORS

32-BIT EMBEDDED PROCESSORS (continued)

SOFTWARE TOOLS (continued)

Other Software

Company	Product Name	Product Type
Bytecodes	Embedded Bytecode Interpreter	Optimized Java Virtual Machines
Counterpoint Systems Foundry	IrLite Development Kit	Infrared communications SDK
Precise Software Technologies	Various	Embedded I/O components
Grammar Engine	PromICE	Firmware development
Inverness Systems	ATIC	ATM protocols and applications
Micro APL	PortAsm	Porting tools that implement the PowerPC architecture (Note)
Pacific Softworks	Fusion	Internet protocols for Embedded Solutions
Sun Consumer Electronics	Internet Software Solution	Embedded internet software
Total Impact	Total PowerSMPPCI	Multiprocessing application accelerator
US Software	USNET	Real-time embedded TCP/IP
Wind River	SystemsWind	ViewSystem visualizer for embedded software

Note: Check with tool vendor for specific derivative support.

HARDWARE TOOLS

Metrowerks

Product	Description	Target Board	Power Supply	Schematic	Documentation	Interface Board	RTOS Support
MPC823FADS	MPC823 FADS Board	•	•	•	•		
MPC850SRFADS	MPC850 FADS Board	•	•	•	•		
MPC8260ADS-P	MPC8260 FADS Board	•	•	•	•		
MPC860FADS	MPC860 FADS Board	•	•	•	•		
MPC860TFADS	MPC860 TFADS Board	•	•	•	•		
MMCEVB1200PV	MMC2001 Low Cost Evaluation	•	•	•	•		
MMCEVB1200PV-A	MMC2001 Low Cost Evaluation Academic	•	•	•	•		
MMCCMB1200	MMC2001 Development Platform	•	•	•	•		
KITEVSMC1200	MMC2001 High Performance System	•	•	•	•	•	
MMCEVB2107	MMC2107 Low Cost Evaluation	•	•	•	•		
MMCCMB2107	MMC2107 Development Platform	•	•	•	•		
KITEVSMC2107	MMC2107 High Performance System	•	•	•	•	•	
KITEVSMC2107	MMC2107 Complete Development System	•	•	•	•		

32-BIT EMBEDDED PROCESSORS (continued)

HARDWARE TOOLS (continued)

Host and Communication Processors

Company	Product Name	Motorola Products Supported
3M	Interconnects & Socket Adapters	Products that implement the PowerPC architecture (Note)
AMP	Interconnects & Socket Adapters	Products that implement the PowerPC architecture (Note)
Applied Microsystems	SuperTAP, CodeTAP, NetROM	MPC821
ASIC Designs	PowerPAQ Handheld Reference Platform	MPC821/823
Atlas Communication Engines	ACE860 Internetworking System	MPC821/823
Cogent Computer Systems	MPU Development Platform	603e, 604(e), MPC505/509, MPC801/821/823/850/860
Digital Logic Instruments (DLI)	Personal Line and proLine Logic	MPC5xxMPC8xx analyzers
DY 4 Systems Embedded Support	S/DMV VMEbus Evaluation Boards	603e, 604e, MPC801/821/823/850/860
Tools (ET) Emulation Technology	BGA Socket/Probing System	Products that implement the PowerPC architecture (Note)
EmuTec	PROMJet and DebugJet Emulators	Products that implement the PowerPC architecture (Note)
Hewlett-Packard	Emulators, Logic Analyzers	Products that implement the PowerPC architecture (Note)
Huntsville Microsystems	Series 200/1000/2000 ICE, Background Mode Debuggers	MPC5xx, MPC8xx
Lauterbach	TRACE32-ICE	MPC505/509, MPC821/860, MPC5xx Family
Macraigor Systems	Serial BDM Wiggler	MPC5xx, MPC8xx
Methode Electronics	Interconnects & Socket Adapters	Products that implement the PowerPC architecture (Note)
Microtek International	MICEpack-J BDM	MPC860
P&E Microcomputer Systems	Contact vendor	MPC555
Radstone Technology	VME single board computers	603e, 604e
Smart Modular Technologies	SMARTengine/603PCI	603e
Tektronix	Oscilloscopes, Logic Analyzers	Products that implement the PowerPC architecture (Note)
Tundra Semiconductor	QSpan PCI Bus Bridge	MPC821/860
V-I Computer	PowerPC ISA single board computers	603e, 604e
Vista Controls	SCORE 603	603e

Note: Check with tool vendor for specific derivative support.

32-BIT EMBEDDED PROCESSORS

32-BIT EMBEDDED PROCESSORS (continued)

DEVELOPMENT SYSTEMS

Metrowerks

Product	Description	RTOS Support	Debug Interface	Serial Cable	Integrated Development Environment	CD ROM	User Manuals	Power Supply	Host Platforms
CWDEVSYS5272	CodeWarrior Development System for 68K/ColdFire ⁽¹⁾	•	•	•	4.1.0.3	•	•	•	Windows 95/98/2000/NT
CWDEVSYS823FADS ⁽²⁾	CodeWarrior Development System for MPC823				4.1.0.3				Windows 95/98/2000/NT
CWDEVSYS850FADS ⁽²⁾	CodeWarrior Development System for MPC850				4.1.0.3				Windows 95/98/2000/NT
CWDEVSYS860FADS ⁽²⁾	CodeWarrior Development System for MPC860				4.1.0.3				Windows 95/98/2000/NT
CWDEVSYS860TFADS ⁽²⁾	CodeWarrior Development System for MPC860T				4.1.0.3				Windows 95/98/2000/NT
CWDEVSYS8260AMC ⁽²⁾	CodeWarrior Development System for MPC8260				4.1.0.3				Windows 95/98/2000/NT
CWDEVSYSMCF5407 ⁽²⁾	CodeWarrior Development System for ColdFire MCF5407 Edition	•	•	•	4.1.0.3	•	•	•	Windows 95/98/2000/NT

(1) 12-month support plan available

(2) Contact Metrowerks for more information

CABLES AND HOST-TARGET INTERFACES

Metrowerks

Product/Part Number	Description	Target Support	Connection Device	Power Supply
CWWIRETAPBDM	AMC's WireTAP Run Control Interface (BDM)			
CWWIRETAPJTAG	AMC's WireTAP Run Control Interface (MPC6xx, 7xx, 82xx, 74xx)			
MMC14EBD102	Enhanced Background Debug Interface			

THIRD PARTY TOOLS

Compilers

Company	Product Name	Motorola Products Supported
Green Hills Software	Optimizing Compilers	Products that implement the PowerPC architecture (Note)
Metaware	High C/C++ Cross Toolset	6xx, MPC5xx, MPC8xx
Mentor Graphics (Microtec Division)	C & C++ Compilers	603(e), 604(e), MPC505, MPC801/821/860
Microware	FasTrak v2.1 IDE	Products that implement the PowerPC architecture (Note)
TASKING	EDE, C/C++/EC++ Compiler products that implement the PowerPC architecture	

Note: Check with tool vendor for specific derivative support.

32-BIT EMBEDDED PROCESSORS (continued)

THIRD PARTY TOOLS (continued)

Debuggers

Company	Product Name	Motorola Products Supported
Green Hills Software	MULTI	68K/683xx/ColdFire/MCORE/PowerPC architecture (Note)
Huntsville Microsystems	SourceGate II	Products that implement the PowerPC architecture (Note)
Lauterbach	TRACE32	Products that implement the PowerPC architecture (Note)
Mentor Graphics	XRAY	603(e), 604(e), MPC505, MPC801/821/860
TASKING	CrossView Pro	Products that implement the PowerPC architecture (Note)
WindRiver	Tornado	Products that implement the PowerPC architecture (Note)

Note: Check with tool vendor for specific derivative support.

Chip Drivers

Company	Product Name	Motorola Products Supported
Aisys	DriveWay	MPC821/850/860
Embedded Concepts and Solutions	NA	6xx, 7xx, MPC8xx
Inverness Systems	NA	MPC860
Precise Software Technologies	NA	Products that implement the PowerPC architecture (Note)
Target Technologies	NA	MPC860

Note: Check with tool vendor for specific derivative support.

32-BIT EMBEDDED PROCESSORS

32-BIT EMBEDDED PROCESSORS (continued)

THIRD PARTY TOOLS (continued)

Real Time Operating Systems and Kernels

Company	Product Name	Motorola Products Supported
CMX	CMX-RTX	Products that implement the PowerPC architecture (Note)
Enea OSE Systems	OSE Real-Time Kernel	Products that implement the PowerPC architecture (Note)
Etno Team	EOS	MPC5xx
Express Logic	ThreadX	Products that implement the PowerPC architecture (Note)
Green Hills Software	Integrity, VelOSity	Products that implement the PowerPC architecture (Note)
JMI Software SYS	C Executive, PSX	Products that implement the PowerPC architecture (Note)
KADAK Products	AMX	Products that implement the PowerPC architecture (Note)
Lynx Real-Time SYS	LynxOS	603, 603e, 604, 604e, MPC821, MPC860;
Mentor Graphics		
Microtec Division	VRTXsa	Products that implement the PowerPC architecture (Note)
Micro Digital	smx Modular RTOS	Products that implement the PowerPC architecture (Note)
Microware Systems	OS-9	Products that implement the PowerPC architecture (Note)
Precise Software TECH.	Precise/MQX	Products that implement the PowerPC architecture (Note)
QNX	QNX RTOS	MPC8xx
Motorola	RTEK	MPC5xx, MPC8xx
Tao Systems	Elate	Products that implement the PowerPC architecture (Note)
US Software	superTask RTOS	Products that implement the PowerPC architecture (Note)
Wind River Systems	VxWorks	Products that implement the PowerPC architecture (Note)

Note: Check with tool vendor for specific derivative support.

Models

Company	Product Name	Motorola Products Supported
Mentor Graphics	Seamless Co-Verification Environment	Products that implement the PowerPC architecture (Note)
Summit Design	Virtual-CPU Co-Verification Environment	Products that implement the PowerPC architecture (Note)
Simpod, Inc.	DeskPOD	Products that implement the PowerPC architecture (Note)
Synopsys	Various	Products that implement the PowerPC architecture (Note)

Note: Check with tool vendor for specific derivative support.

Functional Test and Diagnosis

Company	Product Name	Motorola Products Supported
International Test Technologies	μMaster 4031 (PXI version)	603e, 740, 750, 7400, 8240
International Test Technologies	μMaster 4031 (PCI version)	603e, 740, 750, 7400, 8240

32-BIT EMBEDDED PROCESSORS (continued)

THIRD PARTY TOOLS (continued)

32-Bit Third Party Tools 683XX, MPC500, MCORE, and ColdFire

Company	68300	MPC500	MCORE	ColdFire	Web Address
Assemblers					
Green Hills	•	•	•	•	www.ghs.com
P&E Microcomputer Systems, Inc.	•				www.pemicro.com
WindRiver Systems	•	•	•	•	www.wrs.com
Company	68300	MPC500	MCORE	ColdFire	Web Address
BDM Support Tools					
Cosmic Software	•				www.cosmic-software.com
WindRiver Systems	•	•	•	•	www.wrs.com
Hitex Development Tools	•				www.hitex.com
Agilent Technologies, Inc.	•	•	•		www.agilent.com
iSystem	•		•		www.isystem.com
Lauterbach	•		•	•	www.lauterbach.com
Macraigor Systems LLC	•	•			www.macraigor.com
P&E Microcomputers, Inc.	•				www.pemicro.com
Tasking, Inc.	•				www.tasking.com
Company	68300	MPC500	MCORE	ColdFire	Web Address
Code Coverage Tools					
Ashling Microsystems		•			www.ashling.com
Cosmic Software	•				www.cosmic-software.com
WindRiver Systems	•	•	•	•	www.wrs.com
Green Hills Software	•	•	•	•	www.ghs.com
Hitex Development Tools	•				www.hitex.com
iSystem	•	•			www.isystem.com
Tasking, Inc.	•		•		www.tasking.com

32-BIT EMBEDDED PROCESSORS

32-BIT EMBEDDED PROCESSORS (continued)

THIRD PARTY TOOLS (continued)

32-Bit Third Party Tools 683XX, MPC500, MCORE, and ColdFire (continued)

Company	68300	MPC500	MCORE	ColdFire	Web Address
---------	-------	--------	-------	----------	-------------

Compilers

Byte Craft Limited			•		www.bytecraft.com
Tasking, Inc.	•		•		www.tasking.com
Cosmic Software	•				www.cosmic-software.com
WindRiver Systems	•	•	•	•	www.wrs.com
Green Hills Software	•	•	•	•	www.ghs.com
Company	68300	MPC500	MCORE	ColdFire	Web Address

Debuggers

Ashling Microsystems	•				www.ashling.com
WindRiver Systems	•	•	•	•	www.wrs.com
Green Hills Software	•	•	•	•	www.ghs.com
iSystem	•	•	•		www.isystem.com
Lauterbach	•	•	•	•	www.lauterbach.com
P&E Microcomputers, Inc.	•			•	www.pemicro.com
Company	68300	MPC500	MCORE	ColdFire	Web Address

Evaluation Boards

Axiom Manufacturing		•	•		www.axman.com
Arrow	•	•	•	•	www.arrow.com
Avnet	•	•	•	•	www.avnet.com
Future	•	•	•	•	www.future.com
Company	68300	MPC500	MCORE	ColdFire	Web Address

In-Circuit Emulators

Ashling Microsystems	•	•			www.ashling.com
WindRiver Systems	•	•			www.wrs.com
Hitex Development Tools	•				www.hitex.com
iSystem	•	•			www.isystem.com
Lauterbach	•	•			www.lauterbach.com
Microtek International Inc.	•				www.microtek.com.tw/mice

32-BIT EMBEDDED PROCESSORS (continued)

THIRD PARTY TOOLS (continued)

32-Bit Third Party Tools 683XX, MPC500, MCORE, and ColdFire (continued)

Company	68300	MPC500	MCORE	ColdFire	Web Address
Logic Analyzers					
Agilent Technologies, Inc.	•	•	•		www.agilent.com
iSystem	•				www.isystem.com
Tektronix	•	•	•		www.tek.com/measurement/logic_analyzers/
Company	68300	MPC500	MCORE	ColdFire	Web Address
Performance Analysis Tools					
WindRiver Systems, Inc.	•	•	•	•	www.wrs.com
Green Hills Software	•	•	•	•	www.ghs.com
iSystem	•	•			www.isystem.com
Company	68300	MPC500	MCORE	ColdFire	Web Address
Real-Time Operating Systems					
Accelerated Technology Inc.	•	•	•		www.atinucleus.com
Lineo	•	•	•	•	www.rtxc.com
ETAS	•	•			www.etasinc.com
Green Hills Software	•	•	•		www.ghs.com
Precise Software	•	•	•	•	www.psti.com
Tasking, Inc.	•				www.tasking.com
U S Software	•	•		•	www.ussw.com
WindRiver Systems, Inc.				•	www.wrs.com
Company	68300	MPC500	MCORE	ColdFire	Web Address
Simulation Tools					
WindRiver Systems, Inc.	•		•	•	www.wrs.com
Green Hills Software	•	•	•	•	www.ghs.com
Tasking, Inc.	•		•		www.tasking.com

ANALOG

ANALOG DEVELOPMENT SYSTEMS

Development Tools — Communications Application-Specific Standard Products

Product	Description	Key Product	Status	Documentation
MC14LC5480EVK	PCM Codec-Filter Evaluation Kit	MC14LC5480, MC145481, MC145482, MC145483, MC145484	Available	MC14LC5480EVK/D
MC145572EVK	ISDN U-Interface Transceiver Evaluation Kit	MC145572	Available	Note
MC145574EVK	ISDN S/T-Interface Transceiver Evaluation Kit	MC145574	Available	Note
MC145576EVK	ISDN Single-Chip NT1 Evaluation Kit	MC145576	Available	Note
MC145576DRV	Driving Board for the MC145576EVK for Smart NT1 Evaluation	MC145576	Available	Note
Hipster™	Hipster Reference Design for SOHO Router	MC145572, MC145574, MPC850DH	Available	Note

Note: For documentation, go to <http://www.motorola.com/semiconductors>, and click on the Tools Library link.

DIGITAL SIGNAL PROCESSORS
SOFTWARE TOOLS
DSP56800 Development Tools — Software

Product	Description	Status	Additional Information
MSW3SDK000AA	Embedded software development kit (SDK) for DSP56800		Software infrastructure that allows development of efficient, high level software applications that are fully portable and reusable not only across all DSP56800 family processors, but any future SDK supported architectures as well.

DSP56800 and StarCore — Metrowerks

Product	Description	Target Support	RTOS Support	Board Support	Host-Target Interface	Host Platforms	Language Support	IDE Version	Compile Output Formats
CW DSP56800	CodeWarrior Software Development Tools for DSP56800	DSP56F801; DSP56F803; DSP56F805; DSP56F807; DSP56824	RTXC by Lineo	DSP56F801EVM; DSP56F803EVM; DSP56F805EVM; DSP56F807EVM; DSP56824 EVM; DSP56824ADSA	Parallel Port; PCI; Ethernet	Windows 95/98/2000/NT	C, DSP56800 Assembly	4.1	ELF/DWARF 1.1
CW STARCOREWIN	CodeWarrior Software Development Tools for StarCore v.1.1 (Windows)	MSC8101	Task aware debugging for RTXC from Lineo	MSC8101	Panther HTI for OnCE/JTAG Communication; DSP Parallel Port Based HTI; DSP PCI Based HTI	Windows 98/2000/NT	C, StarCore Assembly	4.1	ELF/DWARF, Motorola S Records
CW STARCORESOL	CodeWarrior Software Development Tools for StarCore v1.1 (Solaris)	MSC8101	Task aware debugging for RTXC from Lineo	MSC8101	Panther HTI for OnCE/JTAG Communication; DSP Parallel Port Based HTI; DSP PCI Based HTI	Sun Ultra 5 Class processors running Solaris 2.6 or Solaris 2.7	C, StarCore Assembly	4.1	ELF/DWARF, Motorola S Records

Networking Application Software

Partner	Description	Contact
Signals and Software Limited	Embedded communications software including speech coders, modems and echo cancellers for applications such as cellular and PCS telephones, pagers, and wireless basestations.	http://www.sasl.com
VoicePump	Off-the-shelf licensable software modules suitable for use in the wireless communications, satellite communications, networking and computer industries.	http://www.voicepump.com/index.html
Lake Communications	Lake Genus suite of DSP algorithms provide many common modem and vocoder combinations using a common API, enabling easy integration into products.	http://www.lakecommunications.com
Surf Communication Solution, Ltd.	Advanced universal port solution for converged packet voice, packet fax, V.9x modems and high-speed data services.	http://www.surf-com.com
Trinity Convergence	VeriCall distributed packet telephony software framework enables packet telephony, including universal port capability, for network equipment manufacturers.	http://www.trinityconvergence.com
Delphi Communication Systems	Multi-protocol Framework, SoftRadio Physical Layers for 2nd and 3rd generation protocols, speech coding and telephony algorithms for wireless interworking functions and packet voice applications.	http://www.delcomsys.com

<http://www.motorola.com/DSP>

*DIGITAL SIGNAL PROCESSORS (continued)**HARDWARE TOOLS**Audio DSP Development Tools — Hardware*

Product	Description	Additional Information
DSP56301ADSA	DSP56301 Development System for IBM PC	For use with 56362,4,6,7 generic or software devices
DSP56301ADSF	DSP56301 Development System for SUN-4	
DSP56303EVM	DSP56303 Evaluation Module Including Software	
DSP56L307EVM	DSP56L307 Evaluation Module Including Software	
DSP56309EVM	DSP56309 Evaluation Module Including Software	
DSP56311EVM	DSP56311 Evaluation Module Including Software	
DSP5636XEVM	DSP5636X Evaluation Module Including Software, Debugger and PPI cable	

DSP56800 Development Tools — Hardware

Product	Description	Status
DSP56824EVM	DSP56824 Evaluation Module Kit	Available
DSP56F801EVM	Evaluation kit for the DSP56F801 processor	Available
DSP56F803EVM	Evaluation kit for the DSP56F803 processor	Available
DSP56F805EVM	Evaluation kit for the DSP56F805 processor	Available
DSP56F807EVM	Evaluation kit for the DSP56F807 processor	Available
DSP56F826EVM	Evaluation kit for the DSP56F826 processor	Available
DSP56F827EVM	Evaluation kit for the DSP56F827 processor	Available
DSPCOMMAND	Emulation support for DSP56F80X processors. Requires ISA slot.	Available
DSPCOMMPARALLEL	Emulation support for DSP56F80X processors. Requires parallel port.	Available
DSPCOMMANDPCI	Emulation support for DSP56F80X processors. Requires PCI slot.	Consult Web or Metrowerks for availability of CodeWarrior software support
DSPCOMMETHERNET	Emulation support for DSP56F80X processors. Requires Ethernet network.	Consult Web or Metrowerks for availability of CodeWarrior software support

Audio DSP Development Tools — Universal Hardware

Product	Description	Additional Information
DSPPCHOST	PC Compatible Host Board and Interface Software	Version 2.0
DSPSUN4HOST	SUN-4 Host Board and Interface Software	Version 2.0
DSPCOMMAND	16- and 24- Bit Command Converter Board	Version 6.1
DSPCOMMANDPCI	16- and 24- Bit Command Converter Board for PCI Interface	Version 1.0
DSPCOMMPARALLEL	16- and 24- Bit Command Converter Board for Parallel Interface	Version 1.0

Metrowerks

Product	Description	Target Board	Power Supply	Schematic	Documentation	Interface Board	RTOS Support
MSC8101ADS	8101 ADS Board						RTXC by Lineo

DIGITAL SIGNAL PROCESSORS (continued)
DEVELOPMENT SYSTEMS
Networking DSP Development Tools

Product	Description
DSPTOOLSCD	DSP56300 Family Simulator/Assembler/Librarian/C Compiler for IBM PC, SUN-4, and Hewlett-Packard Series 700
CDDSP56300/D	DSP56300 Training CD
DSP56301ADM	DSP56301 Applications Development Module
DSP56303EVM	DSP56303 Evaluation Module
DSP56L307EVM	DSP56L307 Evaluation Module
DSP56309EVM	DSP56309 Evaluation Module
DSP56311EVM	DSP56311 Evaluation Module
DSP56321EVM	DSP56321 Evaluation Module
MSC8101ADS	MSC8101 Application Development System
DSPCOMMAND	16-, 24-, 32-bit Command Converter Board which allows the host to talk with DSP target system via OnCE/JTAG port
DSPCOMMPCI	Command Converter with PCI Host Interface
DSPCOMMANDUSB	Command Converter with SBUS Host Interface
DSPCOMMETHERNET	Command Converter with Ethernet Host Interface
DSPCOMMPARALLEL	Command Converter with Parallel Port Host Interface
DSPPCHOST	PC-Compatible Host Interface Board
DSP2UN4HOST	Sun-4 Host Interface Board

DIGITAL SIGNAL PROCESSORS (continued)
DEVELOPMENT SYSTEMS (continued)
DSP56800 and StarCore — Metrowerks

Product	Description	RTOS Support	MMEVS Platform Board	Serial Cable	Integrated Development Environment	CD ROM	Documentation	Power Supply	Host Platforms	In-Circuit Simulator/ Programmer (Board)
DSP56F803EVM	DSP56803 Evaluation System (EVM)						•	•		
DSP56F805EVM	DSP56805 Evaluation System (EVM)						•	•		
DSP56F807EVM	DSP56807 Evaluation System (EVM)						•	•		
DSP56F826EVM	DSP56826 Evaluation System (EVM)						•	•		
DSP56824ADSA	DSP56824 Application Development System (ADS)						•	•		
DSP56824EVM	DSP56824 Evaluation System (EVM)						•	•		
DSP56826EVM	DSP56826 Evaluation System (EVM)						•	•		
DSP56F801EVM	DSP56801 Evaluation System (EVM)						•	•		
CWDEVSY56F803	CodeWarrior Development System for DSP56803									
CWDEVSY56F805	CodeWarrior Development System for DSP56805									
CWDSSTAR8101-WIN	MSC8101 Application Development System for Windows	RTXC by Lineo	•	•	•	•	•	•	Win 98/ NT/2000	Simulator SC140
CWDSSTAR8101-SOL	MSC8101 Application Development System for Solaris	RTXC by Lineo	•	•	•	•	•	•	Solaris 2.6/ Solaris 2.7	Simulator SC140
CWDSSTARWIN	Development System w/ Panther for Windows	RTXC by Lineo	•	•	•	•	•	•	Win 98/ NT/2000	Simulator SC140
CWDSSTARSOL	Development System w/ Panther for Solaris	RTXC by Lineo	•	•	•	•	•	•	Solaris 2.6/ Solaris 2.7	Simulator SC140

CABLES AND HOST-TARGET INTERFACES
Metrowerks

Product/Part Number	Description	Target Support	Connection Device	Power Supply
HTIONCEJTAG	Panther HTI for OnCE/JTAG Communication	CodeWarrior for StarCore Windows/ Solaris		•
DSPCOMMPARALLEL	DSP Parallel Port Based HTI	CodeWarrior for StarCore Windows		
DSPCOMMANDPCI	DSP PCI Based HTI	CodeWarrior for StarCore Solaris		

DIGITAL SIGNAL PROCESSORS (continued)

THIRD PARTY TOOLS

Networking DSP Development Tools

www.motorola.com/DSP

Tools Description	Partner	Contact
Real-Time Operating System	Eonic Systems Embedded Power Corporation Precise Software Technologies Wind River Systems	http://www.eonics.com http://www.embeddedpower.com/ http://www.psti.com http://www.windriver.com
Integrated Development Environment	Green Hills MetroWerks Signalogic Tasking	http://www.greenhills.com http://www.metrowerks.com http://www.signalogic.com http://www.tasking.com
Optimizing Compilers / Assembler / Linker	Green Hills Tasking Wind River Systems	http://www.greenhills.com http://www.tasking.com http://www.windriver.com
Debugger	Domain Technologies Green Hills Precise Software Technologies Tasking Wind River Systems	http://www.domaintec.com http://www.greenhills.com http://www.psti.com http://www.tasking.com http://www.windriver.com
Simulator	Precise Software Technologies Tasking Wind River Systems	http://www.psti.com http://www.tasking.com http://www.windriver.com
DSP Algorithm Development	Mathworks Hyperception	http://www.mathworks.com http://www.hyperception.com
System Simulation and Verification	Cadence Mentor Graphics Synopsys	http://www.cadence.com/alta http://www.mentorgraphics.com http://www.synopsys.com
Hardware Debug Connections/ Analyzers	Corelis/HP Macraigor Systems Signalogic Wind River Systems	http://www.corelis.com/ http://www.macraigor.com http://www.signalogic.com http://www.windriver.com
Integration and Debug Environment	Metrowerks	http://www.metrowerks.com
Hardware Development Tools	CDA Systems P&E Microcomputer Systems United Electronic Industries White Electronic Designs	http://www.cdasy.com http://www.pemicro.com http://www.ueidaq.com http://www.whiteedc.com

Metrowerks

Product	Company
RTXC RTOS Awareness Kernel	Lineo

MICROCONTROLLERS

MICROCONTROLLERS

SOFTWARE TOOLS

68HC05 Programmers

Product	Packages Supported	Programming Adapter	Programmer Board
68HC705B16 68HC705B32	52 PLCC (FN) 56 SDIP (B)	NA	M68ICS05B Serial Programmer/In-Circuit Simulator
68HC705BD3 68HC705BD7	40 DIP (P) 42 SDIP (B)	M68UPA05BD3040 M68UPA05BD3B42	M68HC705UPGMR
68HC705C8A 68HC705C9A	40 DIP (P/S) 44 PLCC (FN/FS)	NA	M68ICS05C Serial Programmer/In Circuit Simulator
68HC705E6	44 QFP (FB) 28 SOIC (DW)	NA	M68HC705E6PGMR
68HC705F32	100 TQFP	NA	X68HC705F32PGMR
68HC705H12	52 PLCC (FN)	NA	X68HC705H12PGMR
68HC705KJ1 68HC705J1A	16 and 20 DIP (P) 16 and 20 SOIC (DW)	NA	M68ICS05KJ Serial Programmer/In-Circuit Simulator
68HC705J5A	16 DIP (P) 20 DIP (P) 20 SOIC (DW)	M68UPA05J5AP16 M68UPA05J5AP20 M68UPA05J5ADW20	M68HC705UPGMR
68HC705JB3	20 DIP (P) 28 DIP (P) 28 SOIC (DW)	M68UPA05JB3P20 M68UPA05JB3P28 M68UPA05JB3DW28	M68HC705UPGMR
68HC705JB4	28 DIP (P) 28 SOIC (DW)	M68UPA05JB4P28 M68UPA05JB4DW28	M68HC705UPGMR
68HC705JJ7	20 DIP (P) 20 SOIC (DW)	NA	M68ICS05JP Serial Programmer/In-Circuit Simulator
68HC705JP7	28 DIP (P) 28 SOIC (DW)	NA	M68ICS05JP Serial Programmer/In-Circuit Simulator
68HC705L16	80 QFP (FU/FZ)	NA	KITPGMR05L16
68HC705P6A	28 DIP (P) 28 SOIC (DW)	NA	M68ICS05P Serial Programmer/In-Circuit Simulator
68HC805P18	28 DIP (P/S)	NA	X68HC805P18PGMR
68HC705PL4	20 DIP (P) 28 DIP (P) 20 SOIC (DW) 28 SOIC (DW)	M68UPA05PL4P20 M68UPA05PL4P28 M68UPA05PL4DW20 M68UPA05PL4DW28	M68HC705UPGMR or M68HC705UGANG
68HC805PV8	28 SOIC (DW)	NA	X68HC805PV8PGMR
68HC705SR3	40 DIP (P) 44 QFP (FB)	M68UPA05SR3P40 M68UPA05SR3FB44	M68HC705UPGMR
68HC705X4	28 DIP (P/S) 28 SOIC (DW)	NA	M68HC705X4PGMR
68HC705X32	64 QFP (FU) 68 PLCC (FN)	NA	M68HC705X32PGMR

MICROCONTROLLERS (continued)
SOFTWARE TOOLS (continued)
68HC08 Programmers

Product	Packages Supported	Programming Adapter	Programmer Board
68HC908AB32	64 QFP	NA	M68ICS08AB Serial Programmer/In-Circuit Simulator
68HC908AB32	64 QFP	M68UPA08AB32FU64	M68HC705UPGMR or M68HC705UGANG Parallel Programmer
68HC908AZ60A 68HC908AS60A	64 QFP (FU) 52 PLCC (FN)	NA	M68ICS08AZAS Serial Programmer/In-Circuit Simulator
68HC908BD48	44 QFB (FB) 42 SDIP (B) 28 DIP (P)	M68UPA08BD48FB44 M68UPA08BD48B42 M68UPA08BD48P28	M68HC705UPGMR or M68HC705UGANG Parallel Programmer
68HC908GP32	40 DIP (P) 44 QFP (FB)	NA	M68ICS08GP Serial Programmer/In-Circuit Simulator: recommended for DIP and QFP programming
68HC908GP32	40 DIP (P) 42 SDIP (B) 44 QFP (FB)	M68UPA08GP32P40 M68UPA08GP32B42 M68UPA08GP32FB44	M68HC705UPGMR or M68HC705UGANG Parallel Programmer
68HC908GR8 68HC908GR4	28 DIP (P) 32 QFP (FA)	NA	M68ICS08GR Serial Programmer/In-Circuit Simulator
68HC908JB8	20 DIP (P) 20 SOIC (DW) 28 SOIC (DW) 42 SDIP (B) 44 QFP (FB)	NA	M68ICS08JB Serial Programmer/In-Circuit Simulator
68HC908JB8	20 DIP (P) 20 SOIC (DW) 28 SOIC (DW) 42 SDIP (B) 44 QFP (FB)	M68UPA08JB8P20 M68UPA08JB8DW20 M68UPA08JB8DW28 M68UPA08JB8B42 M68UPA08JB8FB44	M68HC705UPGMR or M68HC705UGANG Parallel Programmer
68HC908JK3/JK1	20 DIP (P) 20 SOIC (DW)	NA	M68ICS08JLJK Serial Programmer/In-Circuit Simulator
68HC908JK3/JK1	20 DIP (P) 20 SOIC (DW)	M68UPA08JK3P20 M68UPA08JK3DW20	M68HC705UPGMR or M68HC705UGANG Parallel Programmer
68HC908JL3	28 DIP (P) 28 SOIC (DW)	NA	M68ICS08JLJK Serial Programmer/In-Circuit Simulator
68HC908JL3	28 DIP (P) 28 SOIC (DW)	M68UPA08JL3P28 M68UPA08JL3DW28	M68HC705UPGMR or M68HC705UGANG Parallel Programmer

MICROCONTROLLERS

MICROCONTROLLERS (continued)

SOFTWARE TOOLS (continued)

68HC08 Programmers (continued)

Product	Packages Supported	Programming Adapter	Programmer Board
68HC908KX8 68HC908KX2	16 DIP (P) 16 SOIC (DW)	NA	M68ICS08KX
68HC908LD64	64 QFP (FU)	M68UPA08LD64FU64 M68PA08LD64FU64 NA	M68HC705UPGMR or M68HC705UGANG Parallel Programmer M68SPGMR08 Serial Programmer with NO In-Circuit Simulator M68PGMR08DDC FLASH Programming through DDC Interface
68HC908LJ12	64 QFP (FU) 52 QFP (FB) 64 LQFP (PB)	NA	M68ICS08LJ Serial Programmer/In-Circuit Simulator
68HC908MR32 68HC908MR16 68HC908MR8	56 SDIP (B) 64 QFP (FU) 32 QFP (FA)	NA	M68ICS08MR Serial Programmer/In-Circuit Simulator
68HC908RK2	20 SOIC (DW)	NA	M68ICS08RK2 Serial Programmer/In-Circuit Simulator
68HC908SR12	42 SDIP (B) 48 QFP (FA)	NA	M68ICS08SR Serial Programmer/In-Circuit Simulator
68HC908SR12	42 SDIP (B) 48 QFP (FA)	M68UPA08SR12B42 M68UPA08SR12FA48	M68HC705UPGMR or M68HC705UGANG Parallel Programmer

MICROCONTROLLERS (continued)
SOFTWARE TOOLS (continued)

68HC11 Programmers

Product	Platform	Package	Programmer Adapter
68HC711D3	M68SPGMR11	40-pin plastic DIP (P)	M68PA11D3P40
		44-pin QFP (FB)	M68PA11D3FB44
		44-lead PLCC (FN)	M68PA11D3FN44
68HC711E9 68HC11E9/E1	M68SPGMR11	52-lead PLCC (FN)	M68PA11E20FN52
		52-lead QFP (PB)	M68PA11E20PB52
		64-lead QFP (FU)	M68PA11E20FU64
68HC711E20 68HC11E20	M68SPGMR11	52-lead PLCC (FN)	M68PA11E20FN52
		64-lead PLCC (FN)	M68PA11E20FU64
68HC811E2	M68SPGMR11	48-pin plastic DIP (P)	M68PA11A8P48
		52-lead PLCC (FN)	M68PA11E20FN52
68HC11F1	M68SPGMR11	68-lead PLCC (FN)	M68PA11F1FN68
		80-lead TQFP (PU)	M68PA11F1PU80
68HC11G5 68HC11G7	M68SPGMR11	84-lead PLCC (FN)	M68PA11G5FN84
68HC711K4 68HC11K4/K1	M68SPGMR11	80-lead TQFP (FU)	M68PA11K4FU80
		84-lead PLCC (FN)	M68PA11K4FN84
68HC711KA2 68HC11KA2	M68SPGMR11	68-lead PLCC (FN)	M68PA11KA4FN68
68HC711KA4 68HC11KA4	M68SPGMR11	68-lead PLCC (FN)	M68PA11KA4FN68
68HC711KS2 68HC11KS2	M68SPGMR11	68-lead PLCC (FN)	M68PA11KA4FN68
68HC711L6 68HC11L6	M68SPGMR11	64-lead QFP (FU)	M68PA11L6FU64
		68-lead PLCC (FN)	M68PA11L6FN68
68HC711P2 68HC11P2	M68SPGMR11	84-lead PLCC (FN)	M68PA11K4FN84

MICROCONTROLLERS

MICROCONTROLLERS (continued)

SOFTWARE TOOLS (continued)

HC05, HC08, HC11, HC12, HC16, MPC5xx, 568xx, and MCORE — Metrowerks

Product	Description	Target Support	RTOS Support	Board Support	Host-Target Interface	Host Platforms	Language Support	IDE Version
CWHC05ASM	CW ASM Tools for HC05	HC05 family processors (B, BD, C, F, J, JB, JJ, JP, K, KJ, L, LJ, P, PV, SR, SU and X families)		MMEVS, MMDS		Windows 95/98/ 2000/ ME/NT4.0	Assembly, C/C++, cC++, EC++	4.1.1
CWHC05	CW Full Package for HC05							4.1.1
CWHC08PROMO	CW HC08 Promo	HC08 family processors (AB, AS, AZ, BD, EY, GP, GR, JB, JK, JL, KH, KX, LD, MR, RF, RK and SR families)	Metrowerks OSEKturbo OS HC08		MON08	Windows 95/98/ 2000/ ME/NT4.0	Assembly, C/C++, cC++, EC++	4.1.1
CWHC08ASM	CW ASM Tools for HC08		Metrowerks OSEKturbo OS HC08		MON08			4.1.1
CWHC08	CW Full Package for HC08		Metrowerks OSEKturbo OS HC08		MON08			4.1.1
CWHC08CC	Standalone C/C++/cC++/EC++ Compiler for HC08		Metrowerks OSEKturbo OS HC08		MON08			4.1.1
CWHC08MIG	CW Full Package for HC08 Migration		Metrowerks OSEKturbo OS HC08		MON08			4.1.1
CWHC11ASM	CW ASM Tools for HC11	HC11 family processors (D, E, F, FC, K, KS, KW and P families)			Monitor	Windows 95/98/ 2000/ ME/NT4.0	Assembly, C/C++, cC++, EC++	4.1.1
CWHC11	CW Full Package for HC11				Monitor			4.1.1
CWHC11MIG	CW Full Package for HC11 Migration		Metrowerks OSEKturbo OS H		Monitor			4.1.1
CWHC12ASM	CW ASM Tools for HC12	HC12 family processors, (B, BC, BE, D, DG, DT, PP, H and DTB families)	Metrowerks OSEKturbo OS H		SDI, P&E ICD, Abatron BDI, Noral BDM, Lauterbach BDM, Dbug12	Windows 95/98/ 2000/ ME/NT4.0	Assembly, C/C++, cC++, EC++	4.1.1
CWHC12	CW Full Package for HC12		Metrowerks OSEKturbo OS H		SDI, P&E ICD, Abatron BDI, Noral BDM, Lauterbach BDM, Dbug12			4.1.1
CWHC12MIG	CW Full Package for HC12 Migration		Metrowerks OSEKturbo OS H		SDI, P&E ICD, Abatron BDI, Noral BDM, Lauterbach BDM, Dbug12			4.1.1

MICROCONTROLLERS (continued)

SOFTWARE TOOLS (continued)

HC05, HC08, HC11, HC12, HC16, MPC5xx, 568xx, and MCORE — Metrowerks (continued)

Product	Description	Target Support	RTOS Support	Board Support	Host-Target Interface	Host Platforms	Language Support	IDE Version
CWHC16ASM	CW ASM Tools for HC16	HC16 family processors (R, X, Y and Z families)			P&E ICD, Abatron BDI, Lauterbach BDM	Windows 95/98/ 2000/ ME/NT4.0	Assembly, C/C++, cC++, EC++	4.1.1
CWHC16	CW Full Package for HC16				P&E ICD, Abatron BDI, Lauterbach BDM		Assembly, C/C++, cC++, EC++	4.1.1
CWHC16MIG	CW Full Package for HC16 Migration				P&E ICD, Abatron BDI, Lauterbach BDM		Assembly, C/C++, cC++, EC++	4.1.1
CWMPC5XX	CodeWarrior Software Development Tools for MPC5xx	MPC555; MPC 560; MPC561; MPC563; MPC565	OSEK	Axiom CME555; Axiom CMD565	Abatron BDI 2000; P&E		ELF/DWARF 1.0; Motorola S-Record	4.2.5
CWMCORE	CodeWarrior Software Development Tools for MCORE	M2xx/3xx family processors		MMC2001; MMC2075/2080; MMC2107, MMC2103, MMC3401	MetroTRK; Metrowerks EBDI			4.1

MICROCONTROLLERS

MICROCONTROLLERS (continued) HARDWARE TOOLS

68HC05 Emulators, Cables, and Adapters

Product	Platform	Emulation Modules	Packages Supported	Flex Cable	Target Head Adapter	Surface Mount Adapter
68HC05B6/B8/B16/B32 68HC705B16/B32	M68MMPFB0508 or M68MMDS0508	M68EM05B32	56 SDIP (B) 64 QFP (FU) 52 PLCC (FN)	M68CBL05B M68CBL05C M68CBL05C	M68TB05B32B56 M68TC05B32FU64 M68TC05B32FN52	M68TQP064SA1 ⁽¹⁾ M68TQS064SAG1 ⁽¹⁾
68HC05BD3/BD5/BD7 68HC705BD3/BD7	M68MMPFB0508 or M68MMDS0508	M68EM05BD7	40 DIP (P) 42 SDIP (B)	M68CBL05B M68CBL05B	M68TB05BD7P40 M68TB05BD7B42	
68HC05BD9/BD16/BD24 68HC705BD9/BD24	M68MMPFB0508 or M68MMDS0508	X68EM05BD9	40 DIP (P) 42 SDIP (B)	M68CBL05B M68CBL05B	M68TB05BD9P40 M68TB05BD9B42	
68HC05C4A/C8A/C12A 68HC705C8A	M68MMPFB0508 or M68MMDS0508	M68EM05C9A	40 DIP (P) 44 PLCC (FN) 44 QFP (FB) 42 SDIP (B)	M68CBL05B M68CBL05C M68CBL05C M68CBL05B	M68TB05C9P40 M68TC05C4FN44 M68TC05C9FB44 M68TB05C9B42	M68TQS044SAG1 ⁽¹⁾ M68TQP044SAMO1 ⁽¹⁾
68HC05C9A 68HC705C9A	M68MMPFB0508 or M68MMDS0508	M68EM05C9A	40 DIP (P) 44 PLCC (FN) 42 SDIP (B) 44 QFP (FB)	M68CBL05B M68CBL05C M68CBL05B M68CBL05C	M68TB05C9P40 M68TC05C9FN44 M68TB05C9B42 M68TC05C9FB44	M68TQS044SAG1 ⁽¹⁾ M68TQP044SAMO1 ⁽¹⁾
68HC05E6 68HC705E6	M68MMPFB0508 or M68MMDS0508	M68EM05E6	28 SOIC (DW) 44 QFP (FB)	M68CBL05C M68CBL05C	M68TC05E6P28 M68TC05E6FB44	M68DIP28SOIC M68TQS044SAG1 ⁽¹⁾ M68TQP044SAMO1 ⁽¹⁾
68HC705F32	M68MMPFB0508 or M68MMDS0508	M68EM05F32	100 TQFP (PU) 80 TQFP (PU)	M68CBL05E M68CBL05E	M68TE05F32PU100 M68TE05F32PU80	
68HC05H12 68HC705H12	M68MMPFB0508 or M68MMDS0508	X68EM05H12	52 PLCC (FN)	M68CBL05C	X68TC05H12FN52	
68HC05J5A 68HC05LJ5 68HC705J5A	M68MMPFB0508 or M68MMDS0508	X68EML05J5A	16 DIP (P) 20 DIP (P) 16 SOIC (DW) 20 SOIC (DW)	M68CBL05A M68CBL05A M68CBL05A M68CBL05A	M68TA05J5AP16 M68TA05J5AP20 M68TA05J5AP16 M68TA05J5AP20	M68DIP16SOIC M68DIP20SOIC

1. Each QFP target head adapter includes one TQSOCKET with guides (M68TQSxxxSyG1) and one TQPACK disposable surface mount adapter (M68TQPxxxSy1 – 1.2-mm lead length or M68TQPxxxSyMO1 – 1.6-mm lead length). Order additional TQPACKs and TQSOCKETs (optional) using part numbers referenced in the Surface Mount Adapters column to support multiple target systems.

MICROCONTROLLERS (continued)
HARDWARE TOOLS (continued)
68HC05 Emulators, Cables, and Adapters (continued)

Product	Platform	Emulation Modules	Packages Supported	Flex Cable	Target Head Adapter	Surface Mount Adapter
68HC705JB3	M68MMPFB0508 or M68MMDS0508	X68EM05JB3	20 DIP (P) 28 DIP (P) 28 SOIC (DW)	M68CBL05A M68CBL05A M68CBL05A	M68TA05JB3P20 M68TA05JB3P28 M68TA05JB3P28	M68DIP28SOIC
68HC705JB4	M68MMPFB0508 or M68MMDS0508	X68EM05JB4	28 DIP (P) 28 SOIC (DW)	M68CBL05A M68CBL05A	M68TA05JB4P28 M68TA05JB4P28	M68DIP28SOIC
68HC705JJ7 68HC05JJ6	M68MMPFB0508 or M68MMDS0508	X68EM05JP7	20 DIP (P) 20 SOIC (DW)	M68CBL05A M68CBL05A	X68TA05JJ7P20 X68TA05JJ7P20	M68DIP20SOIC
68HC705JP7 68HC05JP6	M68MMPFB0508 or M68MMDS0508	X68EM05JP7	28 DIP (P) 28 SOIC (DW)	M68CBL05A M68CBL05A	X68TA05JP7P28 X68TA05JP7P28	M68DIP28SOIC
68HC05J1A 68HC705J1A	M68MMPFB0508 or M68MMDS0508	M68EM05J1A	20 DIP (P) 20 SOIC (DW)	M68CBL05A M68CBL05A	M68TA05J2P20 M68TA05J2P20	M68DIP20SOIC
68HC705KJ1	M68MMPFB0508 or M68MMDS0508	M68EM05J1A	16 DIP (P) 16 SOIC (DW)	M68CBL05A M68CBL05A	M68TA05KJ1P16 M68TA05KJ1P16	M68DIP16SOIC
68HC05L16 68HC705L16	M68MMPFB0508 or M68MMDS0508	M68EML05L16	80 QFP (FU)	M68CBL05E	M68TE05L16FU80	M68TQS080SBG1 ⁽¹⁾ M68TQP080SBMO1 ⁽¹⁾
68HC05L25 68HC705L26	M68MMPFB0508 or M68MMDS0508	M68EML05L26	52 LQFP (PB)	M68CBL05C	M68TC05L26PB52	
68HC05P1A/P4A/P9A 68HC705P6A	M68MMPFB0508 or M68MMDS0508	X68EML05P6A	28 DIP (P) 28 SOIC (DW)	M68CBL05A M68CBL05A	M68TA05P9P28 M68TA05P9P28	M68DIP28SOIC
68HC05P18 68HC805P18	M68MMPFB0508 or M68MMDS0508	X68EM05P18	28 DIP (P) 28 SOIC (DW)	M68CBL05A M68CBL05A	M68TA05P9P28 M68TA05P9P28	M68DIP28SOIC
68HC05PL4 68HC705PL4	M68MMPFB0508 or M68MMDS0508	X68EML05PL4	20 DIP (P) 28 DIP (P) 20 SOIC (DW) 28 SOIC (DW)	M68CBL05A M68CBL05A M68CBL05A M68CBL05A	M68TA05PL4P20 M68TA05PL4P28 M68TA05PL4P20 M68TA05PL4P28	M68DIP20SOIC M68DIP28SOIC
68HC805PV8	M68MMPFB0508 or M68MMDS0508	X68EM05PV8	28 SOIC (DW)	M68CBL05A	X68TA05PV8P28	M68DIP28SOIC

1. Each QFP target head adapter includes one TQSOCKET with guides (M68TQSxxxSyG1) and one TQPACK disposable surface mount adapter (M68TQPxxxSy1 – 1.2-mm lead length or M68TQPxxxSyMO1 – 1.6-mm lead length). Order additional TQPACKs and TQSOCKETs (optional) using part numbers referenced in the Surface Mount Adapters column to support multiple target systems.