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## MCF5282 : Integrated ColdFire Version 2 Microcontroller

The MCF5282 is the first microcontroller based on Freescale Semiconductor's 32-bit ColdFire core integrated with Ethernet, Flash and CAN. This device offers advanced communications features, a rich peripheral set and a variety of supporting software and development tools.

The MCF5282 is designed to simplify embedded Ethernet-networked microcontroller applications. With its integrated 10/100 Mbps Ethernet MAC and network-ready applications software, the MCF5282 can bring standards-based networking to a variety of traditional MCU applications including food service equipment, security systems, vending machines, exercise equipment and industrial controllers. Applications in all of these areas will benefit from networking functions such as Web-based user interfaces, network time synchronization, and router/gateway functionality for legacy serial protocols.

To learn about the flashless version of the MCF5282 visit the MCF5280 Product Summary Page.

### ► Block Diagram

### MCF5282 Features

- V2 ColdFire core delivering 76 (Dhrystone 2.1) MIPS at 80 MHz running from Cache/RAM (max running from internal flash 66 MIPS)
- 512KB embedded flash memory
- Enhanced Multiply-Accumulate Unit (eMAC) for DSP functionality
- 64 Kbytes of static RAM
- 10/100 Ethernet MAC
- Cache for external access support
- Address decode and chip selects
- CAN 2.0B controller area network interface with 16 message buffers
- Three UARTs with DMA capability
- Queued serial peripheral interface (QSPI) with four peripheral chip selects
- 8-channel 10-bit queued analog-to-digital converter (QADC)
- Four 32-bit timers with capture, compare and DMA capability
- Eight 16-bit timer channels for capture, compare, and pulse width modulation
- Four periodic interrupt timers (PITs)
- I<sup>2</sup>C bus controller

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- JTAG for board testing
- BDM for debug, including real-time trace
- 17 mm x 17 mm x 1.6 mm 256-ball MAPBGA package
- Operation at 66 and 80 MHz from -40C to +85C
- Available at 66MHz delivering 63 (Dhrystone 2.1) MIPS running from Cache/ RAM (max running from internal flash 54 MIPS)
- Available software package including real-time operating system and network protocol stack with support for IP, UDP, TCP, ARP, DHCP, ICMP, SNTP, HTTP, and TFTP protocols

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CPU Performance (Max) (MIPS)	Operating Frequency (Max) (MHz)	Power Dissipation (Typ) (W)	Core Operating Voltage (Spec) (V)	I/O Operating Voltage (Max) (V)	Ambient Temp (Min) (oC)
54, 66	66, 80	0.72	3.3	5	-40

L1 Cache Instructional (Max) (kByte)	L1 Cache Data (Max) (kByte)	Internal RAM (KByte)	A/D Converter-Y/N	A/D Conversion Channels
2	2	64	Yes	8

External Bus Speed (Max) (MHz)	Serial Interface	Chip Selects	Timers	Other Peripherals	Package
	Type		Channels		
66, 80	FlexCAN, I2C, MAC (FEC) 10/100 Ethernet, QSPI, UART	7	4	512KB Flash, DMA Controller, EMAC, Interrupt Controller, JTAG, PLL, Watchdog Timer	MAPBGA 256

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## MCF5282 Parametrics

## MCF5282 Documentation

### Documentation

#### Application Note

ID and Description	Vendor ID	Format	Size K	Rev #
<b><u>AN2394_D</u></b> Migrating from the MCF5272 to the MCF5282	FREESCALE	pdf	549	1
<b><u>AN2393</u></b> Migrating from the MMC2114 to the MCF5282	FREESCALE	pdf	400	0
<b><u>AN1766</u></b> Using the SDRAM Controller on the MCF5307 ColdFire Integrated Processor Application Note	FREESCALE	pdf	312	2.0
<b><u>AN2168</u></b> ColdFire Microprocessor DMA Controller Application Note	FREESCALE	pdf	422	n/a

#### Brochure

ID and Description	Vendor ID	Format	Size K	Rev #
<b><u>CFPITCHPAK</u></b> 68K ColdFire Product Portfolio	FREESCALE	html	2	0

#### Errata - [Click here for important errata information](#)

ID and Description	Vendor ID	Format	Size K	Rev #
<b><u>MCF5282DE</u></b> MCF5282 Device Errata	FREESCALE	pdf	463	1.7

#### Fact Sheets

ID and Description	Vendor ID	Format	Size K	Rev #
<b><u>MCF5282FS</u></b> MCF5282 Fact Sheet	FREESCALE	pdf	1044	0
<b><u>MCF5282PB</u></b> MCF5282 Integrated Microcontroller Product Brief	FREESCALE	pdf	381	0

#### Product Change Notices

ID and Description	Vendor ID	Format	Size K	Rev #
<b><u>PCN9904</u></b> TSPG-TECD PB-FREE,HALIDE-FREE PKG QUAL	FREESCALE	htm	12	0
<b><u>PCN9544</u></b> TSPG-TECD MC QUAL MCF5280/5281/5282	FREESCALE	htm	13	0

**Reference Manual**

ID and Description	Vendor ID	Format	Size K	Rev #
<b>CFPRM</b> ColdFire Family Programmer's Reference Manual	FREESCALE	pdf	4199	2
<b>MCF5282UM</b> MCF5282 ColdFire Microcontroller User's Manual	FREESCALE	pdf	6846	2.3
<b>MCF5282UMAD</b> <b>UPDATED</b> MCF5282 User's Manual Errata	FREESCALE	pdf	126	8

**Roadmap**

ID and Description	Vendor ID	Format	Size K	Rev #
<b>COLDFIRERD</b> ColdFire Performance Roadmap	FREESCALE	pdf	79	0

**Selector Guide**

ID and Description	Vendor ID	Format	Size K	Rev #
<b>SG1000CR</b> Product Selector Guide Index and Cross-Reference	FREESCALE	pdf	172	0
<b>SG1001</b> 32-Bit Embedded Processors Selector Guide	FREESCALE	pdf	616	0
<b>SG1006</b> Microcontrollers Selector Guide	FREESCALE	pdf	566	0
<b>SG1007</b> Network and Communications Processors Selector Guide	FREESCALE	pdf	189	0
<b>SG1011</b> Software and Development Tools Selector Guide	FREESCALE	pdf	347	0

**Supporting Information**

ID and Description	Vendor ID	Format	Size K	Rev #
<b>FLASH PROGRAMMING</b> <b>NEW</b> FlashProgramming_5282.PDF	FREESCALE	pdf	1633	1.0

**Training Reference Material**

ID and Description	Vendor ID	Format	Size K	Rev #
<b>MCF5282TR</b> MCF5282 Technical Presentation	FREESCALE	pdf	1305	0

**White Paper**

ID and Description	Vendor ID	Format	Size K	Rev #
<b>MCF5XXXDBWP</b> MCF5XXXDBWP Debug Support on the ColdFire Architecture	FREESCALE	pdf	215	0

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**MCF5282 Reference Designs**

ID and Description	Vendor ID	Format	Size
<b><u>M5282ZIGBEE</u></b> ColdFire MCF5282 ZIGBEE DEMO KIT	FREESCALE	-	

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**MCF5282 Design Tools**

**Hardware Tools**

**Emulators/Probes/Wigglers**

ID and Description	Vendor ID	Format
<b><u>BDM-CF</u></b> BDM Adaptor The Coldfire BDM Adaptor Module provides a mechanism for using the BDM facilities of the Motorola Coldfire processors through a standard PC parallel port	<b><u>CYBERTEC</u></b>	-
<b><u>IC30000</u></b> iC3000 ActiveEmulator The compact iC3000 with its "iCARD" slot can be used as either an affordable hardware debugger, or the interface module for full in-circuit emulators or high-end on-chip trace modules. USB, serial and Ethernet interfaces are supported.	<b><u>ISYS</u></b>	-
<b><u>IC40000</u></b> iC4000 ActiveEmulator The iC4000 Base unit provides an "iCARD" interface slot so it supports all the same devices as the iC3000, plus can be set up as the Base Unit for the iC2000 emulator modules so it supports all the same devices as the iC2000.	<b><u>ISYS</u></b>	-
<b><u>PROBE</u></b> Green Hills Probe & Slingshot High speed on-chip download and run control.	<b><u>GREENHILLS</u></b>	-

ID and Description	Vendor ID	Format	S
<b><u>COBRA5282</u></b> COBRA5282 Credit card-sized embedded processor module based on the ColdFire MCU MCF5282. Provides up to 8MB Flash, 32MB RAM and numerous interface options, including Ethernet. The acronym COBRA stands for ColdFire Board for Rapid Applications.	<b><u>ELEKTRO</u></b>	-	
 <b><u>CWH-MCF-5282N-VX</u></b> ColdFire 5282 Evaluation System	<b><u>METROWERKS</u></b>	-	
<b><u>M5282EVB</u></b> M5282EVB Evaluation Board supporting MCF5282/81/80/16/14	FREESCALE	-	
<b><u>M5282LITE</u></b> M5282LITE Evaluation Board	FREESCALE	-	
<b><u>M5282LITEKIT</u></b> Evaluation Development Kit	FREESCALE	-	
<b><u>NNDK-MOD5282-KIT</u></b> NetBurner 5282 Development Kit	<b><u>NETBURN</u></b>	-	

## BSDL

ID and Description	Vendor ID	Format
<b><u>M5282BSDL 1 1</u></b>		
MCF5282 BSDL for L95M mask set devices with datecodes equal or greater than XXX0327	FREESCALE	txt
<b><u>MCF5282BSDL</u></b>		
MCF5282 BSDL	FREESCALE	bsdl

ID and Description	Vendor ID	Format
<b><u>MCF5282IBIS</u></b>	FREESCALE	ibs
MCF5282 IBIS Models		

**Software****Application Software****Code Examples**

ID and Description	Vendor ID	Format
<b>M5282EVBDEBUG</b> M5282EVB dBUG source files	FREESCALE	zip
<b>MCF5282I2C</b> MCF5282 I2C example code	FREESCALE	zip
<b>MCF5282SC</b> MCF5282/MCF5280 processor initialization template, header files, and software examples updated revision to include TFTP example and CodeWarrior projects for internal flash	FREESCALE	zip

**Board Support Packages**

ID and Description	Vendor ID	Format
<b>ARC-MOT-MQXBSP</b> MQX Board Support Packages BSPs for Freescale ColdFire, PowerPC, and 68K embedded processors including support for emerging USB and CAN technologies as well as drivers for Ethernet, PCI, HDLC, SPI, I2C, and serial devices.	<b>ARC</b>	-
<b>FREE</b> Metrowerks BSPs for Freescale Metrowerks BSPs are tested, certified and frozen, ensuring a fully operational tool chain, kernel and board specific modules that are ready to use together within a fixed configuration for specific hardware reference platforms.	<b>METROWERKS</b>	-
<b>NNDK-MOD5282-KIT</b> NetBurner 5282 Development Kit	<b>NETBURN</b>	-
<b>PSB01MBSP-WMCF5CW40</b> RTXC Quadros Board Support Complete board support with sample applications	<b>QUADROS</b>	-
<b>RTXC/SS LITE</b> Software and Tools for M5282 LITE Quadros has partnered with Motorola and Viola Systems to provide an operating system, TCP/IP stack and GNU tools for the M5282LITE Kit. Visit this site for the latest updates to the integrated software suite.	<b>QUADROS</b>	-
<b>TARGETBSP</b> BSP for Motorola Boards Blunk offers a variety of off-the-shelf Board Support Packages for Motorola reference boards.	<b>BLUNK</b>	-

**Device Drivers**

ID and Description	Vendor ID	Format	S
<b><u>5282FLASH</u></b> MCF5282 internal Flash program/erase software driver	FREESCALE	zip	1
<b><u>ARC-MOT-CANDEVDRIVER</u></b> CAN Device Drivers CAN Device Driver	<b><u>ARC</u></b>	-	

**Libraries**

ID and Description	Vendor ID	Format
<b><u>PN311-1</u></b> KwikPeg GUI KADAK's KwikPeg Graphical User Interface (GUI) is derived from PEG, a professional, high-quality graphic system created by Swell Software, Inc. to enable you, the embedded system developer, to easily add graphics to your products.	<b><u>KADAK</u></b>	-
<b><u>TARGETFFS</u></b> Flash File Systems Embedded flash file systems, TargetFFS-NOR and TargetFFS-NAND, are a rugged alternative to mechanical storage. For either NOR or NAND flash, they implement reliable, re-entrant, powerfail safe file systems with standard APIs.	<b><u>BLUNK</u></b>	-

**Operating Systems**

ID and Description	Vendor ID	Format
<b><u>ARC-MOT-MFS</u></b> MFS MS-DOS File System is a portable, compatible implementation of the Microsoft MS-DOS file system	<b><u>ARC</u></b>	-
<b><u>ARC-MOT-MQX</u></b> MQX Real Time Operating System A robust, high performance, royalty-free kernel designed for deeply embedded applications requiring a small footprint and fast response.	<b><u>ARC</u></b>	-
<b><u>CHRONOS</u></b> RTOS	<b><u>INTNICHE</u></b>	-
<b><u>CMX-RTX</u></b> CMX-RTX	<b><u>CMX</u></b>	-
<b><u>NNDK-MOD5282-KIT</u></b> NetBurner 5282 Development Kit	<b><u>NETBURN</u></b>	-
<b><u>NUCLEUS PLUS</u></b> Nucleus PLUS Pioneering the Source Code RTOS, Royalty- Free, Nucleus PLUS provides features such as portability, functionality, usability, and configurability that make it the easy real-time kernel choice. Visit our website for a free demo download.	<b><u>ACCTECH</u></b>	-

**PN512-1****AMX CFire**

AMX is a full featured RTOS for the ColdFire family including the MCF52xx, MCF53xx and MCF54xx. AMX has been tested on the Cadre III M5206EC3, Arnewsh SBC5307 and Motorola M5272C3, M5249C3 and M5407C3 boards.

**KADAK**

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**PRD13000123****NEMOS**

NEMOS -- RTOS for Motorola ColdFire

**BTIELECT**

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**PSB01MPRO-WMCF5CW40****RTXC Quadros for MCF5282**

This development-ready solution includes the RTXC Quadros real-time operating system, RTXC Quadnet networking software. The solution is designed to allow for ease of use and fast development by users of all experience levels.

**QUADROS**

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**PSD10XXXX****RTXC Quadros RTOS**

Innovative RTXC Quadros RTOS has two major modules (Single Stack kernel and Multi- Stack kernel) that are used in combination to uniquely support DSPs, microcontrollers and multiprocessing environments with a common API.

**QUADROS**

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**SMXCF****SMX Modular RTOS for ColdFire**

smxCF is designed for the ColdFire processor family. It features hard real-time multitasking, networking, file management, user interface, and full support for Metrowerks CodeWarrior.

**MICRODIG**

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**TARGETOS****TargetOS RTOS**

TargetOS is a full-featured real-time operating system (RTOS) from Blunk Microsystems designed specifically for embedded applications. TargetOS is fast, small, and preemptive.

**BLUNK**

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**THREADX****ThreadX**

RTOS. Royalty-free real-time operating system (RTOS) for embedded applications. ThreadX is small, fast, and royalty-free making it ideal for high-volume electronic products.

**EXPRESSLOG**

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**UC/OS-II****uC/OS-II**

uC/OS-II, The Real-Time Kernel is a highly portable, ROMable, very scalable, preemptive real-time, multitasking kernel for microprocessors. uC/OS-II can manage up to 63 application tasks. uC/OS-II is certifiable for avionics & medical use

**MICRIUM**

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**Programmers**

ID and Description	Vendor ID	Format
<b><u>CFFLASH</u></b> CFFlasher 2.0 A free flash programming utility for Motorola ColdFire evaluation boards.	FREESCALE	zip

**Protocol Stacks**

ID and Description	Vendor ID	Format
<b><u>1.02.0116.TTDDC</u></b> DeviceNet The DeviceNet Slave protocol software contains all important functions required in order to implement a DeviceNet Slave device in accordance with the current DeviceNet specification of the ODVA.	<b><u>IXXAT</u></b>	-
<b><u>1.02.0121.TTDDC</u></b> CANopen The CANopen protocol software includes all necessary functions to implement slave or simple master devices according to the CANopen specification DS301, version 4.02 (EN 50325-4).	<b><u>IXXAT</u></b>	-
<b><u>ARC-MOT-HTTP</u></b> HTTP Web Server The HTTP (Hyper text Transfer Protocol) consists of source code and development tools for building an embedded HTTP server. This is a HTTP 1.0/1.1 compliant Web server with CGI-style user exit support and optional file system support.	<b><u>ARC</u></b>	-
<b><u>ARC-MOT-HTTPPRO</u></b> HTTP PRO HTTP 1.0/1.1 compliant Web server w/ CGI- style user exit sppt, opt'al file system sppt, PageBuilder Web-to-C compiler addit'al compression features, Internat'al language sppt, server-side mapping, HTTP streaming & digest authentication.	<b><u>ARC</u></b>	-
<b><u>ARC-MOT-IPSHIELD</u></b> IPShield Security product support for IPSec, IKE, SSL and SSH. Also supports hardware accelerated encryption on processors with an Integrated Security Engine such as MCF5485/5483, MPC870/875, MPC8272/8248, MCF5271, and MCF5275/5275L.	<b><u>ARC</u></b>	-
<b><u>ARC-MOT-NETWORKPROTOCOLS</u></b> Network Protocols TCP/IP networking stack (ARP, BootP, CCP, CHAP, DHCP, DNS, Echo, EDS, FTP, ICMP, IGMP, IP, IP-E, IPCP, LCP, PAP, PPP, RIPv2, RPC, SNMPv1/v2, SNTP, TCP, TFTP, Telnet, UDP & XDR)& opt'al protocols, SMTP, SNMPv3, PPPoE, XML, SSL/H	<b><u>ARC</u></b>	-
<b><u>ARC-MOT-POP3</u></b> POP3 Enables client embedded devices to receive e-mail from any POP3 server	<b><u>ARC</u></b>	-

**ARC-MOT-RTCS****RTCS**

A real-time, high performance TCP/IP stack designed specifically for embedded networking applications such as IP phones, bridges, routers, pagers, PDAs, cellular phones, and set-top boxes

**ARC**

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**ARC-MOT-SMTP****SMTP**

Royalty free source code SMTP enables embedded devices to send e-mail to any SMTP server. This allows any embedded device to send asynchronous status reports using email.

**ARC**

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**CMX TCP/IP****CMX TCP/IP****CMX**

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**EPL V2.0****Ethernet Powerlink**

The IXXAT EPL protocol stacks are available in a generic version which can easily be ported to ColdFire platforms and various operating systems.

**IXXAT**

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**ETHERNET/IP MASTER LIBRARY****Ethernet/IP**

EtherNet/IP is intended for use in networked real-time control applications. With the integration of Ethernet down to the device level by means of CIP, the user has a number of advantages.

**IXXAT**

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**INFOLINK-STACKNAME****INFOLink Protocol Software Family****LINK**

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**INTERNICHE NAT ROUTER****NAT Firewall****INTNICHE**

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**INTERNICHE PPP OPTIONS****PPP, PPPoE, Multi-Link PPP****INTNICHE**

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**MOC SSH SVR****Mocana Embedded SSH Server**

MOCANA SSH SERVER: Supports Freescale chipsets out of the box. Small (50KB), fast (2-3x faster than OpenSSH), trusted. Supports all major cryptos. Royalty free, source code license. FREE EVAL: <http://www.mocana.com/evaluate.html>

**MOCANA**

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**MOC SSL CLIENT****Mocana Embedded SSL/TLS Client**

MOCANA SSL/TLS CLIENT: Supports Freescale chipsets out of the box. Small (50KB), fast (2-3x faster than OpenSSL), trusted. Supports all major cryptos. Royalty free, source code license. FREE EVAL: <http://www.mocana.com/evaluate.html>

**MOCANA**

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**MOCANA**

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**NICHESTACK****TCP/IP v4****INTNICHE**

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<b><u>NICHESTACK SSL LIBRARY</u></b> Secure Sockets Layer	<b><u>INTNICHE</u></b>	-
<b><u>NNDK-MOD5282-KIT</u></b> NetBurner 5282 Development Kit	<b><u>NETBURN</u></b>	-
<b><u>NUCLEUS NET</u></b> Nucleus NET Nucleus NET, Accelerated Technology's TCP/IP protocol stack, is the foundation for the rest of our networking products. Nucleus NET includes all of the essential protocols necessary to connect your product to the Internet.	<b><u>ACCTECH</u></b>	-
<b><u>NUCLEUS WEBSERV</u></b> Nucleus WebServ An embedded web (HTTP) server that enables your device to be remotely monitored, configured and more using the ubiquitous web browser interface. Serve up static web pages or dynamically create them in response to web browsers requests.	<b><u>ACCTECH</u></b>	-
<b><u>PN713-1</u></b> KwikNet The KwikNet TCP/IP Stack enables you to add networking features to your products with a minimum of time and expense. KwikNet is a compact, high performance stack built with KADAK's characteristic simplicity, flexibility and reliability.	<b><u>KADAK</u></b>	-
<b><u>PSQ40XXXX</u></b> RTXC Quadnet Networking Protocols Full protocol suite: TCP, UDP, SLIP, ICMP, and ARP with Berkeley Sockets API. Plus DHCP, BOOTP, DNS, IGMP v2, RIP v2, NAT, HTTP, SMTP, POP3, TFTP, FTP, Telnet, SNMP v1,2,3, PPP and more. New security protocols: SSL, IPsec, IKE.	<b><u>QUADROS</u></b>	-
<b><u>TARGETTCP</u></b> TCP/IP Stack TargetTCP, is a fast, reliable, re-entrant, full-featured TCP/IP protocol stack designed specifically for high-performance embedded networking. The code has a small footprint and is well suited to memory constrained environments.	<b><u>BLUNK</u></b>	-
<b><u>TARGETWEB</u></b> Web (HTTP) Server TargetWeb is a high-performance embedded web server (HTTP Server) that allows users to monitor and control their embedded applications using any standard browser.	<b><u>BLUNK</u></b>	-
<b><u>UC/TCP-IP</u></b> uC/TCP-IP uC/TCP-IP is a compact, reliable, high performance TCP/IP protocol stack. Built from the ground up with Micrium's renowned quality, scalability and reliability, ?C/TCP-IP enables the rapid configuration of required network options.	<b>MICRIUM</b>	-
<b><u>WEBPORT HTTP SERVER</u></b> Embedded web server	<b><u>INTNICHE</u></b>	-



**Software Tools****Compilers**

ID and Description	Vendor ID	Format	S
<b>68K COMPILER</b> TASKING 68K/ColdFire The 68K/ColdFire software development toolset consists of a C/C++/EC++ compiler, macro assembler, linker/locator, libraries, CrossView Pro debugger and EDE (Embedded Development Environment).	<b>ALTUMLTD</b>	-	
<b>COMPILER</b> C/C++ Compiler Optimizing C, C++, EC++ compilers for Freescale PowerPC, ColdFire, StarCore, 68K, MCore and ARM-based MAC architectures.	<b>GREENHILLS</b>	-	
<b>CROSSFIRE-LINUX</b> CrossFire Tools The CrossFire Tools for Windows and Linux are a low cost, easy to install, C/C++ development environment for the Motorola ColdFire? family of Microprocessors.	<b>CYBERTEC</b>	-	
<b>CROSSFIRE-WIN</b> CrossFire Tools The CrossFire Tools for Windows and Linux are a low cost, easy to install, C/C++ development environment for the Motorola ColdFire? family of Microprocessors.	<b>CYBERTEC</b>	-	
<b>CWCF</b> CodeWarrior Development Studio for ColdFire	<b>METROWERKS</b>	-	
<b>DIAB</b> Diab C/C++ Compiler	<b>WINDRIV</b>	-	
<b>NNDK-MOD5282-KIT</b> NetBurner 5282 Development Kit	<b>NETBURN</b>	-	

**Debuggers**

ID and Description	Vendor ID	Format	S
<b>LA-7732</b> TRACE32-ICD TRACE32-ICD for ColdFire is a high performance JTAG debugger for C ,C++ and JAVA. A USB 2.x, LPT or ethernet interface is available for connection to any PC or workstation. A flash programming utility is included.	<b>LAUBACH</b>	-	
<b>NNDK-MOD5282-KIT</b> NetBurner 5282 Development Kit	<b>NETBURN</b>	-	

**IDE (Integrated Development Environment)**

ID and Description	Vendor ID	Format	S
<b>CFDS</b> ColdFire Development Suite The ColdFire Development Suite includes a C compiler, assembler, linker and library manager and libraries, source level simulator, source level BDM debugger and, for some variants, Code Creation Wizards.	<b>CROSS</b>	-	
 <b>CWS-MCF-CX</b> CodeWarrior™ Development Studio for ColdFire Architectures, Windows Hosted	<b>METROWERKS</b>	-	
 <b>CWS-MCF-LX</b> CodeWarrior Development Studio for ColdFire Architectures	<b>METROWERKS</b>	-	
<b>IC-SW-OPR</b> winIDEA winIDEA integrates a Project Manager, Source Code Editor, High and Low Level Debugger, and Flash Programmer, all into one easy-to-use Windows application. It is the one user interface for all of our emulators and debuggers.	<b>ISYS</b>	-	
<b>MULTI</b> MULTI MULTI is a complete integrated development environment for embedded applications using C, C++, Embedded C++	<b>GREENHILLS</b>	-	
<b>SBCTOOLS-WF</b> sbcTools-WF, Eclipse Edition Complete software development tools-set, including GCC, GDB, TCP/IP stack, serial console and target config services, all accessible seamlessly through Eclipse. Includes WildFire BSP with h/w interface libraries and annotated demo programs.	<b>INTEC</b>	-	

**Initialization/Boot Code Generation**

ID and Description	Vendor ID	Format	S
<b>COLDFIRE_INIT</b> MicroAPL Limited's ColdFire Graphical Configuration Tool	<b>MICROAPL</b>	htm	

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**Orderable Parts Information**

Part Number	Package Description	Tape and Reel	Pb-Free Terminations	Application/Qualification Tier	Status	Budget Price QTY 10 (\$US)
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MCF5282CVF66	<b><u>MAPBGA 256</u></b> <b><u>17*17*0.8P1.0</u></b>	No	No	COMMERCIAL, INDUSTRIAL	Available	\$19.3
MCF5282CVF80	<b><u>MAPBGA 256</u></b> <b><u>17*17*0.8P1.0</u></b>	No	No	COMMERCIAL, INDUSTRIAL	Available	\$23.2
MCF5282CVM66	<b><u>MAPBGA 256</u></b> <b><u>17*17*0.8P1.0</u></b>	No	Yes	COMMERCIAL, INDUSTRIAL	Available	\$19.3
MCF5282CVM80	<b><u>MAPBGA 256</u></b> <b><u>17*17*0.8P1.0</u></b>	No	Yes	COMMERCIAL, INDUSTRIAL	Available	\$23.2

**NOTE:**

- Not all orderable parts are offered through our online sampling program. For further assistance in selecting, please submit a [Request for a sample order advice.](#)
- Refer to [Samples FAQ](#) for more information.
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**Related Products**

- ▶ [MCF5280 : Integrated ColdFire Version 2 Microcontroller](#)  
The MCF5280 is the flashless version of the MCF5282 based on Freescale Semiconductor's 32-bit ColdFire core.
- ▶ [MCF5281 : Integrated ColdFire Version 2 Microcontroller](#)  
The MCF5281 is a 32-bit microcontroller based on the ColdFire core and integrated with Ethernet, Flash, and other peripherals.

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- ▶ [Industrial Control](#)
- ▶ [Embedded Networks Evaluation CD set](#)
- ▶ [ColdFire® MCF5282 VirtuaLab from the Freescale Embedded Learning Center](#)
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