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Home > ColdFire > ColdFire MCF5XXX > MCF5282

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.

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► 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)
- I²C bus controller

- 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

 [Return to Top](#)

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 Converter
				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

[Return to Top](#)**MCF5282 Parametrics****MCF5282 Documentation****Documentation****Application Note**

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

Brochure

ID and Description	Vendor ID	Format	Size K	Rev #
CFPITCHPAK 68K ColdFire Product Portfolio	FREESCALE	html	2	0

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

ID and Description	Vendor ID	Format	Size K	Rev #
MCF5282DE MCF5282 Device Errata	FREESCALE	pdf	463	1.7

Fact Sheets

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

Product Change Notices

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

Reference Manual

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

Roadmap

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

Selector Guide

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

Supporting Information

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

Training Reference Material

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

White Paper

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

[▲ Return to Top](#)

MCF5282 Reference Designs

ID and Description	Vendor ID	Format	Si
M5282ZIGBEE ColdFire MCF5282 ZIGBEE DEMO KIT	FREESCALE		-

[▲ Return to Top](#)

MCF5282 Design Tools

Hardware Tools

Emulators/Probes/Wigglers

ID and Description	Vendor ID	Format	Si
BDM-CF 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	CYBERTEC		-
IC3000 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.	ISYS		-
IC4000 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.	ISYS		-
PROBE Green Hills Probe & Slingshot High speed on-chip download and run control.	GREENHILLS		-

Evaluation/Development Boards and Systems

ID and Description	Vendor ID	Format	
COBRA5282 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.	<u>ELEKTRO</u>	-	
 CWH-MCF-5282N-VX ColdFire 5282 Evaluation System	<u>METROWERKS</u>	-	
M5282EVB M5282EVB Evaluation Board supporting MCF5282/81/80/16/14	FREESCALE	-	
M5282LITE M5282LITE Evaluation Board	FREESCALE	-	
M5282LITEKIT Evaluation Development Kit	FREESCALE	-	
NNDK-MOD5282-KIT NetBurner 5282 Development Kit	<u>NETBURN</u>	-	

Models**BSDL**

ID and Description	Vendor ID	Format
M5282BSDL_1_1 MCF5282 BSDL for L95M mask set devices with datecodes equal or greater than XXX0327	FREESCALE	txt
MCF5282BSDL MCF5282 BSDL	FREESCALE	bsdl

IBIS

ID and Description	Vendor ID	Format
MCF5282IBIS MCF5282 IBIS Models	FREESCALE	ibs

Software

Application Software Code Examples

ID and Description	Vendor ID	Format
M5282EVBUG M5282EVB dBUG source files	FREESCALE	zip
MCF5282I2C MCF5282 I2C example code	FREESCALE	zip
MCF5282SC 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
ARC-MOT-MQXBSP 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.	ARC	-
FREE 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.	METROWERKS	-
NNDK-MOD5282-KIT NetBurner 5282 Development Kit	NETBURN	-
PSB01MBSP-WMCF5CW40 RTXC Quadros Board Support Complete board support with sample applications	QUADROS	-
RTXC/SS LITE 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.	QUADROS	-
TARGETBSP BSP for Motorola Boards Blunk offers a variety of off-the-shelf Board Support Packages for Motorola reference boards.	BLUNK	-

Device Drivers

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

Libraries

ID and Description	Vendor ID	Format
PN311-1 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.	<u>KADAK</u>	-
TARGETFFS 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.	<u>BLUNK</u>	-

Operating Systems

ID and Description	Vendor ID	Format
ARC-MOT-MFS MFS MS-DOS File System is a portable, compatible implementation of the Microsoft MS-DOS file system	<u>ARC</u>	-
ARC-MOT-MQX MQX Real Time Operating System A robust, high performance, royalty-free kernel designed for deeply embedded applications requiring a small footprint and fast response.	<u>ARC</u>	-
CHRONOS RTOS	<u>INTNICHE</u>	-
CMX-RTX CMX-RTX	<u>CMX</u>	-
NNDK-MOD5282-KIT NetBurner 5282 Development Kit	<u>NETBURN</u>	-
NUCLEUS PLUS 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.	<u>ACCTECH</u>	-

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
PRD13000123 NEMOS NEMOS -- RTOS for Motorola ColdFire	BTIELECT
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
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
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
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
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
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

Programmers

ID and Description	Vendor ID	Forma
CFFLASHER CFflasher 2.0 A free flash programming utility for Motorola ColdFire evaluation boards.	FREESCALE	zip

Protocol Stacks

ID and Description	Vendor ID	Forma
1.02.0116.TTDDC 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.	IXXAT	-
1.02.0121.TTDDC 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).	IXXAT	-
ARC-MOT-HTTP 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.	ARC	-
ARC-MOT-HTTPPRO 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.	ARC	-
ARC-MOT-IPSHIELD 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.	ARC	-
ARC-MOT-NETWORKPROTOCOLS 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	ARC	-
ARC-MOT-POP3 POP3 Enables client embedded devices to receive e-mail from any POP3 server	ARC	-

ARC-MOT-RTCS	ARC	-
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-MOT-SMTP	ARC	-
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.		
CMX TCP/IP	CMX	-
CMX TCP/IP		
EPL V2.0	IXXAT	-
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.		
ETHERNET/IP MASTER LIBRARY	IXXAT	-
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.		
INFOLINK-STACKNAME	LINK	-
INFOLink Protocol Software Family		
INTERNICHE NAT ROUTER	INTNICHE	-
NAT Firewall		
INTERNICHE PPP OPTIONS	INTNICHE	-
PPP, PPPoE, Multi-Link PPP		
MOC_SSH_SVR	MOCANA	-
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		
MOC_SSL_CLIENT	MOCANA	-
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		
MOC_SSL_SVR	MOCANA	-
Mocana Embedded SSL/TLS Server MOCANA SSL/TLS SERVER: 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		
NICESTACK	INTNICHE	-
TCP/IP v4		

NICHESTACK SSL LIBRARY Secure Sockets Layer	INTNICHE	-
NNDK-MOD5282-KIT NetBurner 5282 Development Kit	NETBURN	-
NUCLEUS NET 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.	ACCTECH	-
NUCLEUS WEBSERV 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.	ACCTECH	-
PN713-1 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.	KADAK	-
PSQ40XXXX 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.	QUADROS	-
TARGETTCP 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.	BLUNK	-
TARGETWEB 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.	BLUNK	-
UC/TCP-IP 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.	MICRIUM	-
WEBPORT HTTP SERVER Embedded web server	INTNICHE	-

Software Tools

Compilers

ID and Description	Vendor ID	Format	
68K_COMPILER 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).	ALTIUM LTD	-	
COMPILER C/C++ Compiler Optimizing C, C++, EC++ compilers for Freescale PowerPC, ColdFire, StarCore, 68K, MCORE and ARM-based MAC architectures.	GREENHILLS	-	
CROSSFIRE-LINUX 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.	CYBERTEC	-	
CROSSFIRE-WIN 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.	CYBERTEC	-	
CWCF CodeWarrior Development Studio for ColdFire	METROWERKS	-	
DIAB Diab C/C++ Compiler	WINDRIV	-	
NNDK-MOD5282-KIT NetBurner 5282 Development Kit	NETBURN	-	

Debuggers

ID and Description	Vendor ID	Format
LA-7732 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.	LAUBACH	-
NNDK-MOD5282-KIT NetBurner 5282 Development Kit	NETBURN	-

IDE (Integrated Development Environment)

ID and Description	Vendor ID	Format
CFDS		
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.	CROSS	-
 CWS-MCF-CX CodeWarrior™ Development Studio for ColdFire Architectures, Windows Hosted	METROWERKS	-
 CWS-MCF-LX CodeWarrior Development Studio for ColdFire Architectures	METROWERKS	-
IC-SW-OPR 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.	ISYS	-
MULTI MULTI MULTI is a complete integrated development environment for embedded applications using C, C++, Embedded C++	GREENHILLS	-
SBCTOOLS-WF sbcTools-WF, Eclipse Edition Complete software development tools-set, including GCC, GDB, TCPIP stack, serial console and target config services, all accessible seamlessly through Eclipse. Includes WildFire BSP with h/w interface libraries and annotated demo programs.	INTEC	-

Initialization/Boot Code Generation

ID and Description	Vendor ID	Format
COLD FIRE INIT MicroAPL Limited's ColdFire Graphical Configuration Tool	MICROAPL	htm

 [Return to Top](#)

Orderable Parts Information

Part Number	Package Description	Tape and Reel	Pb-Free Terminations	Application/Qualification Tier	Status	Budget Price QTY 1000 (\$US)

MCF5282CVF66	MAPBGA 256 17*17*0.8P1.0	No	No	COMMERCIAL, INDUSTRIAL	Available	\$19.3
MCF5282CVF80	MAPBGA 256 17*17*0.8P1.0	No	No	COMMERCIAL, INDUSTRIAL	Available	\$23.2
MCF5282CVM66	MAPBGA 256 17*17*0.8P1.0	No	Yes	COMMERCIAL, INDUSTRIAL	Available	\$19.3
MCF5282CVM80	MAPBGA 256 17*17*0.8P1.0	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.
- Looking for an obsolete part? Check our [distributors' inventory](#)

[▲ Return to Top](#)

Related Products

► [MCF5280 : Integrated ColdFire Version 2 Microcontroller](#)

The MCF5280 is the flashless version of the MCF5282 based on Freescale Semiconductor's 32-bit Co

► [MCF5281 : Integrated ColdFire Version 2 Microcontroller](#)

The MCF5281 is a 32-bit microcontroller based on the ColdFire core and integrated with Ethernet, Flash

[▲ Return to Top](#)

Related Links

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Control](#)

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► [ColdFire® MCF5282 VirtualLab from the Freescale Embedded Learning
Center](#)

► [Quadros Systems, Inc.](#)

[▲ Return to Top](#)