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MCF528X: Integrated ColdFire V2 Ethernet, CAN and Flash Microcontrollers

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The MCF528X is a 32-bit microcontroller family based on the ColdFire core and integrated with Ethernet, CAN and Flash (except for MCF5280). These devices offer advanced communications features, a rich peripheral set and a variety of supporting software and development tools.

The MCF528X family is designed to simplify embedded Ethernet-networked microcontroller applications. With its integrated 10/100 Mbps Ethernet MAC and network-ready applications software, the MCF5280 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.

Available software with support for IP, UDP, TCP, ARP, DHCP, ICMP, SNMP, HTTP, and TFTP protocols.



Features

V2 ColdFire core delivering 76 (Dhrystone 2.1) MIPS at 80 MHz running from Cache/RAM (max running from internal flash 66 MIPS)

- Cache (KB): 2K I/D
- Integrated peripherals
 - 10/100 Ethernet MAC
 - CAN 2.0B
 - 3 UARTs with DMA capability
 - QSPI
 - I²C
 - Queued serial peripheral interface (QSPI) with four peripheral chip selects
 - QADC: 8-channel 10-bit queued analog-to-digital converter
 - Four 32-bit timers with capture, compare and DMA capability
 - Eight 16-bit timer channels for capture, compare, and pulse width modulation
 - PITs: 4

Related Products

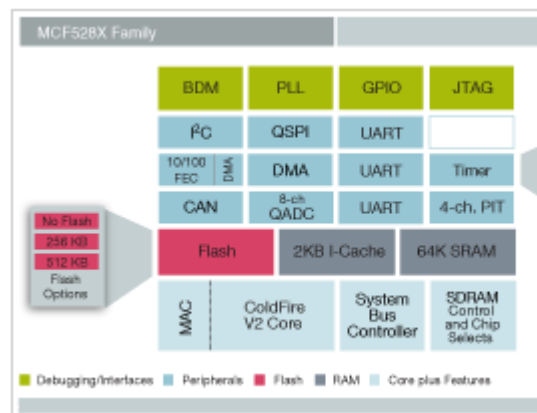
[MCF520X: Integrated ColdFire V2 External Memory and Ethernet Microprocessors](#)

[MCF5223X: Integrated ColdFire V2 Ethernet Microcontrollers](#)

[MCF527X: V2 ColdFire® Integrated Microprocessor](#)

MCF528X Family Members

Features	MCF5280	MCF5281	MCF5282
Freq (MHz)	66, 80	66, 80	66, 80
MIPS (Dhrystone 2.1)	76	76	76



Featured Documentation

[MCF5282FACT](#): MCF5282FACT MCF528x ColdFire Controllers

[MCF5282UM](#): MCF5282/81/80 and MCF5216/14 C Microcontroller User's Manual

[MCF5282DE](#): MCF5282 Device Errata

[COLDFIRE_OVERVIEW](#): ColdFire Family Overview

[CFPRM](#): ColdFire Family Programmer's Reference

Current Updates & Releases

[M5282LITE](#): MCF5282 LITE Evaluation Board (Only)

[SA5282SLK](#): ColdFire M5282 Student Learning Kit

[COLDFIRE_TCPIP](#): InterNiche's ColdFire TCP/IP S

Reference Designs

- [Security Control Panel](#)

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