

**PRODUCT BRIEF:**

Logic :: Freescale

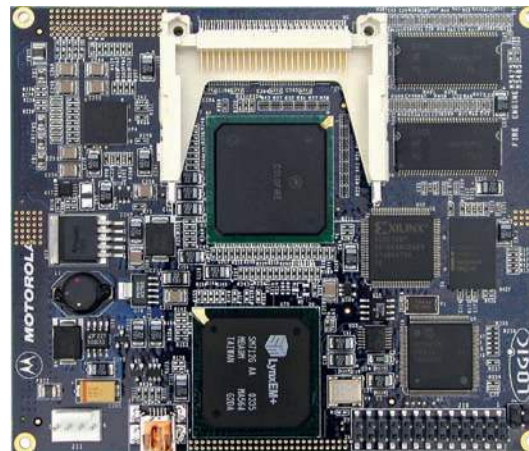
## MCF5475 FIRE ENGINE System on Module

**The MCF5475 Fire Engine is a compact, product-ready hardware and software solution that fast forwards your embedded product design.**

The ColdFire MCF5475 processor is ideally suited for embedded industrial applications requiring simultaneous control, connectivity, and security. The Fire Engine module based on this processor is a complete System on Module (SOM) offering essential features for embedded applications. Using a SOM allows engineers to design a custom baseboard that meets their specific needs and is compatible with other Logic SOMs. This compatibility makes it easy for developers to upgrade their product for greater functionality and performance—while still using their original baseboard design.

By starting with the corresponding Zoom™ EVB Development Kit, developers can write application software on the same hardware that will be used in the final product.

The MCF5475 ColdFire processor from Freescale Semiconductor provides a broad range of peripheral support, making it an ideal processor for industrial and embedded applications.



MCF5475 Fire Engine

Designing a product around Logic's SOM allows developers to easily combine their core technologies with the high performance of the MCF5475 ColdFire processor.

**MCF5475 FIRE ENGINE :: HIGHLIGHTS:**

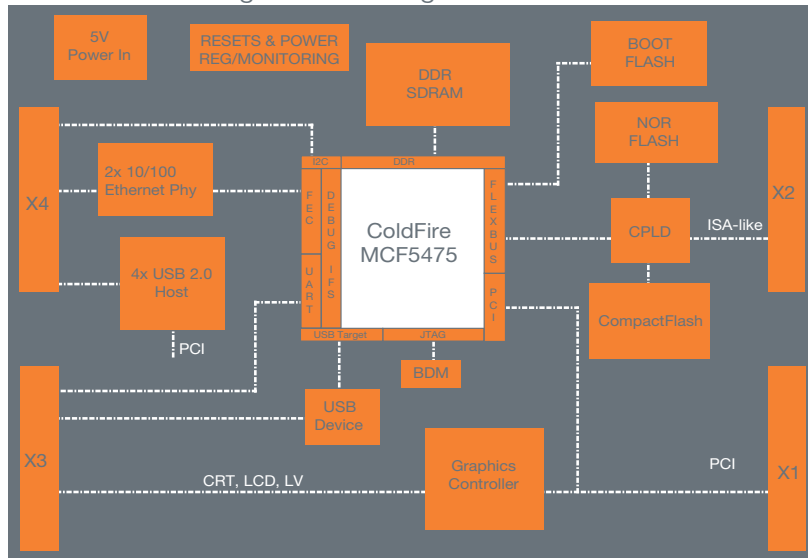
- + Product-ready System on Module with the Freescale MCF5475 ColdFire microprocessor running up to 266 MHz
- + SOM-ETX form factor  
114 mm x 95 mm x 13.8 mm
- + Long product life-cycle
- + 0 °C to 70 °C (commercial temp)
- + RoHS compliant

**ZOOM™ COLDFIRE EVB :: FEATURES:**

- + Application baseboard
- + MCF5475 Fire Engine (M5475CFEE)
- + Necessary accessories to immediately get up and running
- + Kit available from Freescale (M5475EVBE)
- + See Zoom™ ColdFire EVB product brief for more information



## MCF5475 Fire Engine Block Diagram



## MCF5475 Fire Engine Ordering Information

Freescale PN	Speed (MHz)	SDRAM (MB)	Boot Flash (MB)	NOR Flash (MB)	Graphics	Audio	Ethernet	USB Host
M5475CFEE	up to 266	64	2	16	Y	Y	Y	Y

## ZOOM™ ColdFire EVB Ordering Information

Freescale PN	SOM Configuration	Recommended Resale
M5475EVBE	M5475CFEE	\$850

### LOGIC WEBSITE :: DESIGN RESOURCES:

- + Logic Technical Support : <http://www.logicpd.com/support/>
- + Technical Discussion Group : <http://www.logicpd.com/support/tdg/>
- + Frequently Asked Questions (FAQ) : <http://www.logicpd.com/support/faq/>
- + For more information contact Logic Sales : [product.sales@logicpd.com](mailto:product.sales@logicpd.com)



embedded product solutions

411 N. Washington Ave. Suite 400 Minneapolis, MN 55401  
 T : 612.672.9495 F : 612.672.9489 I : [www.logicpd.com](http://www.logicpd.com)



## Product Features

### Processor

- +Freescale MCF5475 ColdFire V4e microprocessor running up to 266 MHz

### SDRAM Memory

- +64 MB DDR SDRAM standard

### Flash Memory

- +Boot flash: 2 MB
- +NOR flash: 16 MB

### Display

- +Programmable color LCD controller
- +Built-in driver supports up to 1024x768 with 16-bit LCD interface

### Network Support

- +Dual 10/100 Base-T Ethernet controller for application/debug

### PC Card Expansion

- +CompactFlash Type I card (memory-mapped mode only) supported through the CPLD
- +Two PCI 2.2 slots

### USB

- +One USB 2.0 high-speed device interface
- +Four USB 2.0 high-speed host interfaces

### PSC Ports

- +Four PSC UARTs
- +Configurable as UART, USART, modem, codec, or IrDA

### PWM

- +Four channels

### GPIO

- +Programmable IO depending on peripheral requirements

### Software

- +LogicLoader™ (bootloader/monitor)
- +Freescale dBug ROM monitor
- +Other third-party options

### Mechanical

- +95 mm wide x 114 mm long x 13.8 mm high

### RoHS Compliant