## E·XFL



Welcome to E-XFL.COM

Understanding <u>Embedded - Microcontroller,</u> <u>Microprocessor, FPGA Modules</u>

Embedded - Microcontroller, Microprocessor, and FPGA Modules are fundamental components in modern electronic systems, offering a wide range of functionalities and capabilities. Microcontrollers are compact integrated circuits designed to execute specific control tasks within an embedded system. They typically include a processor, memory, and input/output peripherals on a single chip. Microprocessors, on the other hand, are more powerful processing units used in complex computing tasks, often requiring external memory and peripherals. FPGAs (Field Programmable Gate Arrays) are highly flexible devices that can be configured by the user to perform specific logic functions, making them invaluable in applications requiring customization and adaptability.

Applications of Embedded - Microcontroller,

#### Details

2 0 1 1 1 0				
Product Status	Obsolete			
Module/Board Type	MPU Core			
Core Processor	ColdFire V4e, MCF5475			
Co-Processor	-			
Speed	266MHz			
Flash Size	16MB			
RAM Size	64MB			
Connector Type	-			
Size / Dimension	-			
Operating Temperature	0°C ~ 70°C			
Purchase URL	https://www.e-xfl.com/product-detail/logic-pd/m5475jfee			

Email: info@E-XFL.COM

Address: Room A, 16/F, Full Win Commercial Centre, 573 Nathan Road, Mongkok, Hong Kong

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) offerring 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<sup>™</sup> 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.

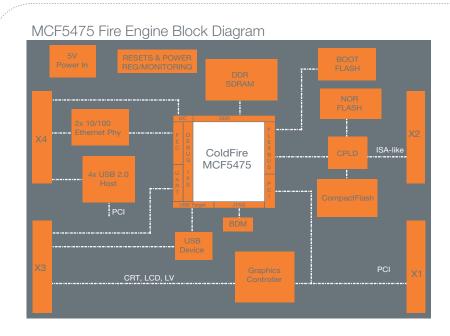
#### MCF5475 FIRE ENGINE :: HIGHLIGHTS:

- + 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<sup>™</sup> COLDFIRE EVB :: FEATURES:

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





## MCF5475 Fire Engine Ordering Information

Freescale PN	Speed (MHz)	SDRAM (MB)	Boot Flash (MB)		Graphics	Audio	Ethernet	USB Host
M5475CFEE	up to 266	64	2	16	Y	Y	Y	Y

## ZOOM<sup>™</sup> ColdFire EVB Ordering Information

		\$850
Freescale PN	SOM Configuration	Recommended Resale

#### 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



#### embedded product solutions

411 N. Washington Ave. Suite 400 Minneapolis, MN 55401 T:612.672.9495 F:612.672.9489 I:www.logicpd.com

### **Product Features**

#### Processor

+ Freescale MCF5475 ColdFlre 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



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PN: 1001849 Rev D