

**PRODUCT BRIEF:**

Logic :: Freescale

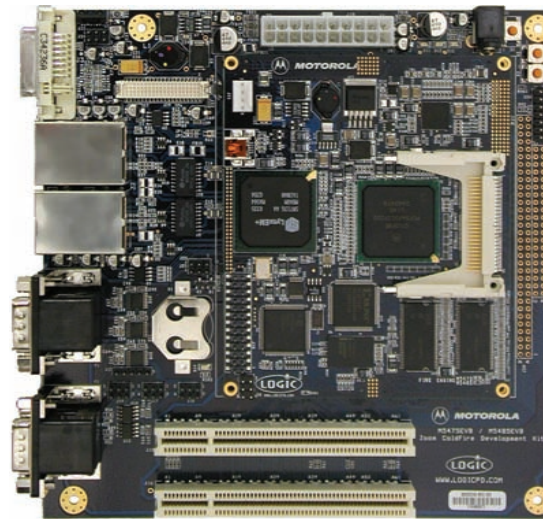
## ZOOM™ ColdFire EVB Development Kit

By providing a product-ready hardware and software platform, Logic's embedded solutions fast forward development and help engineers stay focused on their high-value core technologies. The Zoom™ ColdFire EVB Development Kit is a low-cost, high-performance method of evaluating the Freescale ColdFire processor and Fire Engine System on Module (SOM).

Logic's Fire Engine is ideal for applications in the industrial, medical, and point-of-sale markets. The Fire Engine uses the SOM-ETX form factor and Freescale MCF5475/85 ColdFire processor to provide the engineer with a broad range of peripherals.

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

The Zoom™ ColdFire EVB Development Kit includes the Fire Engine, application baseboard, and accessories required to immediately begin development work.



ZOOM™ COLD FIRE EVB DEVELOPMENT KIT  
WITH FIRE ENGINE INCLUDED

**ZOOM™ COLD FIRE EVB KIT :: HIGHLIGHTS:**

- + Low-cost development kit
- + Includes product-ready Fire Engine System on Module (SOM)
- + Mini-ITX form factor baseboard  
170 mm x 170 mm x 33 mm
- + Ready to run Board Support Packages (BSPs)

**FIRE ENGINE :: BENEFITS:**

- + Long product life-cycle
- + Scalability
- + SOM-ETX form factor  
95 mm x 114 mm x 13.8 mm
- + 0 °C to 70 °C (commercial temp)
- + See MCF5475 and MCF548x Fire Engine product briefs for more information



## ZOOM™ ColdFire EVB Development Kit Ordering Information

Freescalé PN	SOM Configuration	Recommended Resale
M5475EVBE	M5475CFEE	\$850
M5485EVBE	M5485HFEE	\$850

## MCF5475 Fire Engine Ordering Information

Freescalé 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

## MCF5485 Fire Engine Ordering Information

Freescalé PN	Speed (MHz)	SDRAM (MB)	Boot Flash (MB)	NOR Flash (MB)	Graphics	Audio	Ethernet	USB Host
M5485AFEE	up to 200	64	2	0	—	Y	Y	—
M5485BFEE	up to 200	64	2	16	—	Y	Y	—
M5485HFEE	up to 200	64	2	16	Y	Y	Y	—

## ZOOM™ Display Kit Ordering Information

Model Number	Sharp LCD PN	Display Size	Display Format	LCD Interface	Key Features
LCD-3.6-QVGA-10R	LQ036Q1DA01	3.6"	QVGA 320x240	TFT	Color, transmissive
LCD-6.4-VGA-10R	LQ64D343	6.4"	VGA 640x480	TFT	Color, transmissive

+ ColdFire EVB Development Kits require a custom LCD adapter cable, sold separately (PN LCDCABLE-FREESCALE-10)

### 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

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## Product Features

### Fire Engine Included

- + Includes M5475CFEE or M5485HFEE

### Display Connectors

- + Integrated LCD and backlight connector for Zoom Display Kits (requires custom LCD cable)
- + VGA connector

### Network Support

- + Two RJ45 Ethernet jack connectors with magnetics

### PC Card Expansion

- + Two PCI 2.2 connectors

### USB

- + Four USB 2.0 high-speed host interfaces (MCF5475 only)
- + One USB 2.0 mini-B device interface (located on Fire Engine)

### Serial Ports

- + Three RS-232 debug serial ports (two DB9 connectors, one header connector)
- + One TTL serial port connected to IrDA transceiver

### CAN

- + Two CAN 2.0B ports (MCF5485 only)

### Software

- + LogicLoader™ (bootloader/monitor)
- + Freescalé dBUG ROM monitor
- + Linux
- + Other third-party options

### Cables

- + Serial cable (null-modem)
- + Ethernet crossover cable
- + BDM interface and cable
- + 5 volt power supply

### Mechanical

- + SOM-ETX form factor Fire Engine  
95 mm wide x 114 mm long x 13.8 mm high
- + Mini-ITX form factor baseboard  
170 mm wide x 170 mm long x 33 mm high

### RoHS Compliant

PN: 70000221 Rev D