Zoom™ Freescale ColdFire EVB

![LOGIC]

freescale™
Launched by Motorola
semiconductor
www.freescale.com

The Zoom™ Freescale ColdFire EVB is a low-cost Application Development Kit for evaluating the functionality of the ColdFire processor and Fire Engine. This results in an embedded product development cycle with **less time, less cost, less risk ... more innovation.**

Application development is performed right on the product-ready Mini-ITX/Fire Engine and software Board Support Packages included in the kit, which enables customers to seamlessly transfer their application code and hardware into production.

M5475/85
Fire Engine
SOM-ETX

Logic Mini-ITX
or
Custom
Baseboard

Final
Product

TARGET MARKETS

The Fire Engine is ideal for industrial market applications:

- Factory Automation
  Embedded Computing, Network Integration

- HVAC & Building Control
  Building Automation & controls

- Medical Instrumentation
  Medical Imaging, Home Health Monitoring, Patient Monitoring

- Fire & Security
  CCTV Cameras, Control Panels, Intruder Alarm Control Panels

- Point of Sale (POS) Market
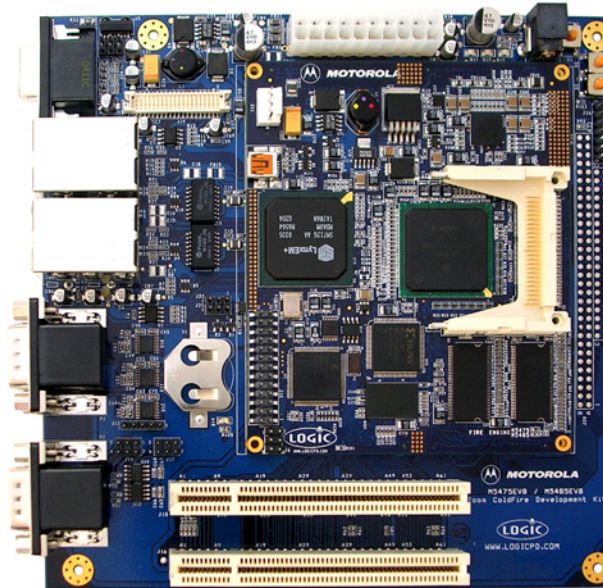 Card Payment Terminals, POS Terminals/Printers, Bar Code Scanners

ZOOM DISPLAY KITS

Logic offers the following display kits (bezel, inverter, touch panel, and cable assemblies included):

- LCD-3.5-QVGA-10
  3.5", QVGA, AD-TFT

- LCD-6.4-VGA-10
  6.4", VGA, TFT

- LCD-12.1-SVGA-10
  12.1", SVGA, TFT

- **Fire Engine Included** (64MB DDR, 16MB Flash, Graphics Ctrlr, USB Host)
- **LCD Display Connector** Integrated LCD, touch & backlight connector for Zoom Display Kits
- **VGA Connector**
- **Network Support** Two RJ45 Ethernet jack connectors (application/debug)
- **PC Card Expansion**
  - Two PCI 2.2 slots (32 Bit, 33 or 66MHz, 3.3V)
- **Serial Ports**
  - Three RS232 level shifted serial ports, 2 DB9s, 1 header
  - One TTL serial port connected to IrDA transceiver
- **Can 2.0b** Two ports (MCF5485 only)
- **USB** USB 2.0 High speed four hosts and 1 Highspeed Device (on Fire Engine)
- **SPI**
- **RTC**
- **Software**
  - LogicLoader™ (bootloader/monitor)
  - Freescale dBug ROM Monitor
  - Linux[1]
  - ARC MQX RTOS[1]
  - Green Hills Integrity[1]
  - Accelerated Technology Nucleus[1]
- **Mechanical Mini-ITX**
  - 6.7" (170 mm) long x 6.7" (170 mm) wide x 1.3" (33 mm) high
- **Cables**
  - Serial cable (null modem) - Ethernet Crossover
  - 5 volt power supply - USB Function Cable
  - BDM interface

1) Third party ports available from Freescale

CONTACT

For more information on our Embedded Product Solutions, please contact Logic Sales at www. logicpd.com or 612.672.9495.

APPLICATION DEVELOPMENT KITS | BSPs & SOFTWARE | SYSTEM ON MODULES | PRODUCT DEVELOPMENT SERVICES

■ Zoom ColdFire Development Kit Ordering Information

Freescale P/N	Fire Engine Configuration	Recommended Resale
M5475EVB	M5475CFE	$850
M5485EVB	M5485CFE	$850

■ Fire Engine Ordering Information

Freescale P/N	DDR Mem (MB)	Nor Flash (MB)	Boot Flash	Graphics Ctrlr	USB[1]
M5475AFE	64	0	2 MB	-	-
M5475BFE	64	16	2 MB	-	-
M5475CFE[2]	64	16	2 MB	Y	Y
M5475DFE	64	0	2 MB	-	Y
M5475EFE	64	0	2 MB	Y	Y
M5475FFE	128	32	2 MB	Y	Y
M5485AFE	64	0	2 MB	-	-
M5485BFE	64	16	2 MB	-	-
M5485CFE[2]	64	16	2 MB	Y	Y
M5485DFE	64	0	2 MB	-	Y
M5485EFE	64	0	2 MB	Y	Y
M5485FFE	128	32	2 MB	Y	Y

1) When ordering Fire Engines with USB Host, the PCI slots are locked at 33 MHz
2) Denotes Fire Engine configurations on M5475EVB and M5485EVB Zoom ColdFire Development Kit

■ Zoom Display Kits*

Model Number	Sharp LCD P/N	Display Size Diagonal	Display Format	Type	Key Features
LCD-3.5-QVGA-10	LQ035Q7DB02	3.5"	QVGA (240x320)	TFT	Color, Transreflective
LCD-6.4-VGA-10	LQ64D343	6.4"	VGA (640x480)	TFT	Color, Transmissive
LCD-12.1-SVGA-10	LQ121S1DG31	12.1"	SVGA (800x600)	TFT	Color, Trasmissive

* Freescale Development Kits require the purchase of an LCD Adapter Cable (P/N LCDCABLE-FREESCALE-10)

Fire Engine Advantage: Less time, less cost, less risk ... More Innovation

Zoom™ ColdFire Development Kit (CDK) & Display Kit	*Fire Engine - SOM ETX (with common footprint)*	*Mini-ITX or Custom Base Board (with Fire Engine)*	*Final Product*

CDK's simplify:
»» *Application specific code development*
»» *Evaluation of the ColdFire MCU / Fire Engine*
»» *The transfer of application code, OS and BSPs into production*

Fire Engine complete with:
»» *Board Support Packages*
»» *Bootloader provides in-field device management, manufacturing, and test capabilities*

Base Board provides:
»» *Power*
»» *Connectors*
»» *Custom peripherals*
»» *Custom form factor*

Final Product results:
»» *Accelerated time to market*
»» *Reduced development cost*
»» *Customer focuses on core competencies*