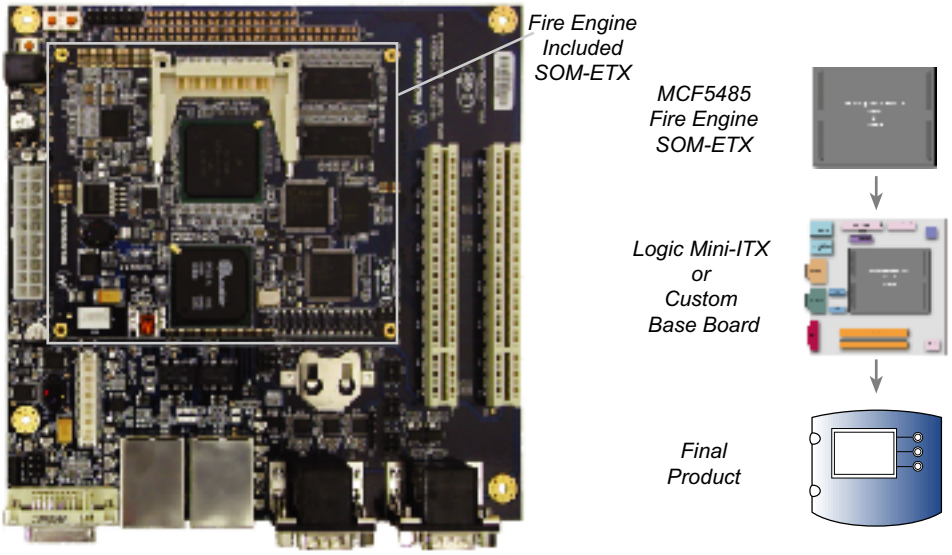
Zoom™ ColdFire DEVELOPMENT KIT

M5475EVB & M5485EVB

Launched by Motorola
freescale™ semiconductor
www.freescale.com

The ZoomTM ColdFire Development Kit 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 transfers their application code and hardware into production.



- **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**
  - Two 115.2Kbps RS-232 serial ports
  - Two TTL serial ports
- **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 Debug ROM Monitor
  - Linux (avail. Q3 '04)[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)
  - 5 volt power supply
  - BDM interface
  - Ethernet Crossover
  - USB Function Cable

[1]*Third party ports available from Freescale*

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 panal, and cable assemblies included):

- Freescale P/N MQVGADK
  3.5", QVGA, AD-TFT
- Freescale P/N MVGADK
  6.4", VGA, TFT
- Freescale P/N MSVGADK
  12.1", SVGA, TFT

ORDERING INFORMATION

Zoom ColdFire Development Kits:

- Freescale P/N M5475EVB
  MCF5475 Fire Engine,
  0 to 70 deg C
- Freescale P/N M5485EVB
  MCF5485 Fire Engine
  -40 to 85 deg C
- Fire Engines are available for purchase separately, see next page.

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Zoom ColdFire Development Kit Ordering Information

Freescale P/N	Fire Engine Configuration	Recommended Resale
M5475EVB	MCF5475CFE	$ 850
M5475EVB	MCF5485CFE	$ 850

MCF5475 Fire Engine Ordering Options

Freescale P/N	DDR Mem (MB)	Nor Flash (MB)	Boot Flash	Graphics Ctrlr	USB*
MCF5475AFE	64	0	Y	-	-
MCF5475BFE	64	16	Y	-	-
MCF5475CFE**	64	16	Y	Y	Y
MCF5475DFE	64	0	Y	-	Y
MCF5475EFE	64	0	Y	Y	Y
MCF5475FFE	128	32	Y	Y	Y

* When ordering Fire Engines with USB Host, the PCI slots are locked at 25 MHz
**Denotes Fire Engine configuration on M5475EVB Zoom ColdFire Development Kit

MCF5485 Fire Engine Ordering Options

Freescale P/N	DDR Mem (MB)	Nor Flash (MB)	Boot Flash	Graphics Ctrlr	USB*
MCF5485AFE	64	0	Y	-	-
MCF5485BFE	64	16	Y	-	-
MCF5485CFE**	64	16	Y	Y	Y
MCF5485DFE	64	0	Y	-	Y
MCF5485EFE	64	0	Y	Y	Y
MCF5485FFE	128	32	Y	Y	Y

* When ordering Fire Engines with USB Host, the PCI slots are locked at 33 MHz
**Denotes Fire Engine configuration on M5485EVB Zoom ColdFire Development Kit

Zoom ColdFire Display Kits

Freescale P/N	Sharp LCD P/N	Display Size Diagonal	Display Format	Type	Key Features
MQVGADK	LQ035Q7DB02	3.5"	QVGA (240x320)	TFT	Color, Transreflective
MVGADK	LQ64D343	6.4"	VGA (640x480)	TFT	Color, Transmissive
MSVGADK	LQ121S1DG31	12.1"	SVGA (800x600)	TFT	Color, Transmissive

Fire Engine Advantage: Reduce development time, cost, and risk

Zoom™ ColdFire Development Kit (CDK) & Display Kit

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

Fire Engine - SOM ETX (with common footprint)

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

Mini-ITX or Custom Base Board (with Fire Engine)

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

Final Product

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

Get to Market Faster with Logic's Product-Ready Fire Engine...
Stay ahead by taking advantage of the Fire Engine's scalable hardware and software architecture

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