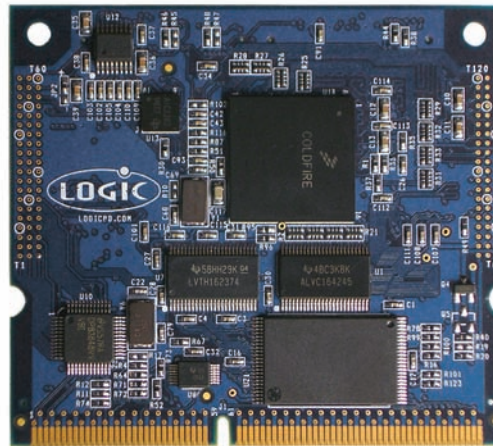# MCF5373 FIRE ENGINE System on Module

The MCF5373 Fire Engine is a compact, product-ready hardware and software solution that fast forwards your embedded product design.

The MCF5373 Fire Engine is a complete System on Module (SOM) that offers essential features for handheld and embedded networking applications. Use of custom baseboards makes the Fire Engine the ideal foundation for OEMs developing handheld and compact products. The Fire Engine provides a common reference pin-out on its expansion connectors, which enables easy scalability to next generation microprocessor Fire Engines when new functionality or performance is required.

Application development is performed right on the product-ready MCF5373 Fire Engine and software Board Support Packages (BSPs), which enables you to seamlessly transfer your application code and hardware into production.

The MCF5373 Fire Engine is ideal for applications in the medical, point-of-sale, industrial, and security markets. From patient

FREESCALE MCF5373 FIRE ENGINE

monitoring and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the MCF5373 Fire Engine allows for powerful versatility and long-life products.
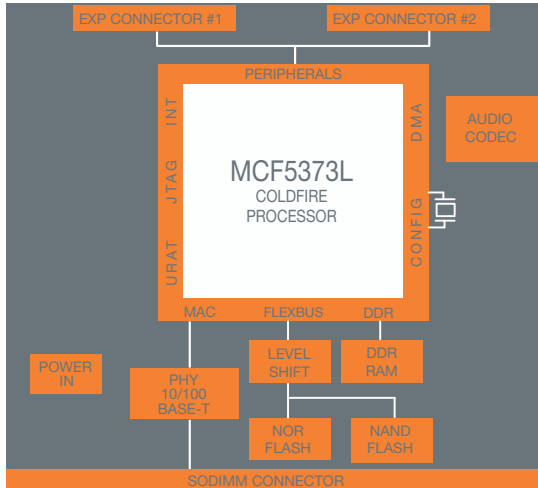
MCF5373 FIRE ENGINE :: HIGHLIGHTS:

+ Product-ready System on Module with the MCF5373L ColdFire processor running at 240 MHz
+ SOM Card Engine form factor 60.2 mm x 67.8 mm x 4.4 mm
+ Long product lifecycle
+ Multiple third-party software options
+ 0 ℃ to 70 ℃ (commercial temp)
+ RoHS compliant

ZOOM™ COLDFIRE M5373EVB :: FEATURES:

+ Application baseboard
+ MCF5373 Fire Engine
+ Necessary accessories to immediately get up and running
+ Kit available from Freescale (M5373EVB)
+ See Zoom™ ColdFire SDK product brief for more information

LOGIC

MCF5373 Fire Engine Block Diagram

MCF5329/73 Fire Engine Ordering Information

Freescale P/N	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	NOR Flash (MB)	LCD/Touch	Audio	Ethernet
MCF5373[1]	240	32	16	2	--	Y	Y
M5329AFE	240	32	0	2	Y	Y	Y
M5329BFE	240	32	16	2	Y	Y	Y

1. MCF5373 Fire Engines are only available as part of the M5373EVB kit. For production volumes, please use MCF5329 Fire Engines.

ZOOM™ ColdFire M5373EVB Ordering Information

Freescale P/N	SOM Configuration	Recommended Resale
M5373EVB	MCF5373	$699

Product Features

Processor
+Freescale MCF5373L 32-bit ColdFire RISC microprocessor running at 240 MHz

SDRAM Memory
+32 MB DDR SDRAM standard

Flash Memory
+2–4 MB scalable NOR flash (2 MB standard)
+Scalable NAND flash (16 MB standard)

Network Support
+10/100 Base-T Ethernet controller for application/debug (National Semiconductor DP83848 PHY)

Audio
+I2S compliant audio codec (Texas Instruments TLV320AIC23)

PC Card Expansion
+CompactFlash Type I card (memory-mapped mode only)

USB
+USB 2.0 full-speed host and device interface

Serial Ports
+Three 16C550 compatible UARTs
+Queued SPI interface w/selectable bit patterns

GPIO
+Programmable I/O depending on peripheral requirements

Software
+LogicLoader™ (bootloader/monitor)
+Freescale dBUG ROM monitor
+Multiple third-party software options

Mechanical
+60.2 mm wide x 67.8 mm long x 4.4 mm high

RoHS Compliant

LOGIC

embedded product solutions

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