

PRODUCT BRIEF:

Logic :: Freescale

MCF5329 FIRE ENGINE System on Module

The MCF5329 Fire Engine is a compact, product-ready hardware and software solution that fast forwards your embedded product design.

The MCF5329 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 MCF5329 Fire Engine and software Board Support Packages (BSPs), which enables you to seamlessly transfer your application code and hardware into production.

The MCF5329 Fire Engine is ideal for applications in the medical, point-of-sale, industrial, and security markets. From patient



FREESCALE MCF5329 FIRE ENGINE

monitoring and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the MCF5329 Fire Engine allows for powerful versatility and long-life products.

MCF5329 FIRE ENGINE :: HIGHLIGHTS:

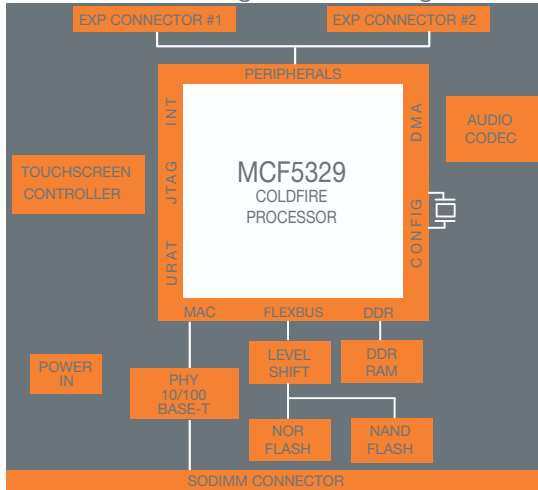
- +Product-ready System on Module with the MCF5329 ColdFire processor running at 240 MHz
- +SOM Card Engine form factor 60.2 mm x 67.8 mm x 4.4 mm
- +Long product lifecycle
- +Multiple third-party software options
- +0 °C to 70 °C (commercial temp)
- +RoHS compliant

ZOOM™ COLD FIRE M5329EVB :: FEATURES:

- +Application baseboard
- +MCF5329 Fire Engine (M5329BFE)
- +Necessary accessories to immediately get up and running
- +Kit available from Freescale (M5329EVBE)
- +See Zoom™ ColdFire SDK product brief for more information



MCF5329 Fire Engine Block Diagram



MCF5329 Fire Engine Ordering Information

Freescal P/N	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	NOR Flash (MB)	Touch	Audio	Ethernet
M5329AFE	240	32	0	2	Y	Y	Y
M5329BFE	240	32	16	2	Y	Y	Y

ZOOM™ ColdFire M5329EVB Ordering Information

Freescal P/N	SOM Configuration	Recommended Resale
M5329EVBE	M5329BFE	\$699

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

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Product Features

Processor

- +Freescal MCF5329 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)

Display

- +Programmable color LCD controller
- +Built-in driver supports up to 800x600 with 16-bit LCD interface

Touch Screen

- +Integrated 4-wire touch screen controller

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

CAN

- +CAN 2.0B interface muxed with I2C interface

GPIO

- +Programmable I/O depending on peripheral requirements

Software

- +LogicLoader™ (bootloader/monitor)
- +Freescal 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