PRODUCT BRIEF: Logic :: Freescale

MCF548x FIRE ENGINE System on Module

The MCF548x Fire Engine is a compact, product-ready hardware and software solution that fast forwards your embedded product design.

The ColdFire MCF5484 and MCF5485 processors are ideally suited for embedded industrial applications requiring simultaneous control, connectivity, and security. The Fire Engine modules based on these processors are complete System on Modules (SOMs) offerring essential features for embedded applications. Using a SOM allows engineers to design a custom baseboard that meets their specific needs and is compatible with other Logic SOMs. This compatibility makes it easy for developers to upgrade their product for greater functionality and performance—while still using their original baseboard design.

By starting with the corresponding Zoom[™] LITEKIT or EVB Development Kit, developers can write application software on the same hardware that will be used in the final product.

The MCF5484 and MCF5485 ColdFire processors from Freescale Semiconductor provide a broad range of peripheral support,



MCF5485 FIRE ENGINE SYSTEM ON MODULE

making them ideal processors for industrial and embedded applications.

Designing a product around Logic's SOM allows developers to easily combine their core technologies with the high performance of the MCF5484 or MCF5485 ColdFire processor.

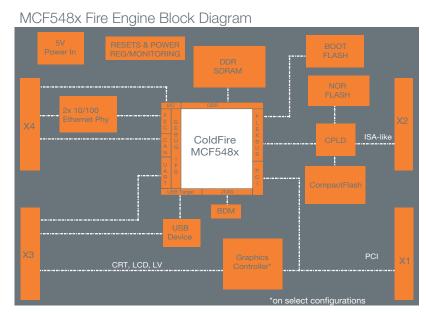
MCF548x FIRE ENGINE :: HIGHLIGHTS:

- + Product-ready System on Module with the Freescale MCF5484 or MCF5485 ColdFire microprocessor running up to 200 MHz
- +SOM-ETX form factor 114 mm x 95 mm x 13.8 mm
- +Long product life-cycle
- +0 °C to 70 °C (commercial temp)
- +RoHS compliant

ZOOM[™] COLDFIRE LITEKIT and EVB :: FEATURES:

- + Application baseboard
- +MCF548x Fire Engine (M5484GFEE or M5485HFEE)
- + Necessary accessories to immediately get up and running
- + Kit available from Freescale (M5484LITEKITE or M5485EVBE)
- + See Zoom[™] ColdFire LITEKIT and EVB product briefs for more information





MCF548x Fire Engine Ordering Information

| Freescale PN | | | Boot Flash (MB) | | Graphics | Audio | Ethernet |
|--------------|-----------|----|--------------------|----|----------|-------|----------|
| M5484GFEE | up to 200 | 64 | 4 | 0 | | Y | Y |
| M5485AFEE | up to 200 | 64 | 2 | 0 | | Y | Υ |
| M5485BFEE | up to 200 | 64 | 2 | 16 | | Y | Y |
| M5485HFEE | up to 200 | 64 | 2 | 16 | Y | Y | Y |

ZOOM[™] ColdFire LITEKIT and EVB Ordering Information

| Freescale PN | SOM Configuration | Recommended Resale | | |
|---------------|-------------------|--------------------|--|--|
| M5484LITEKITE | M5484GFEE | \$350 | | |
| M5485EVBE | M5485HFEE | \$850 | | |

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

+Four PSC UARTs

+Two CAN 2.0B interfaces

PWM

+Four channels

GPIO

+ Programmable IO depending on peripheral requirements

Software

- +LogicLoader[™] (bootloader/monitor)
- + Freescale dBug ROM monitor
- +Other third-party options

Mechanical

+95 mm wide x 114 mm long x 13.8 mm high

PN: 1001850 Rev D

reescale

embedded product solutions

LOGIC

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+ Programmable color LCD controller +Built-in driver supports up to 1024x768 with

16-bit LCD interface

Network Support +Dual 10/100 Base-T Ethernet controller for application/debug

+ Freescale MCF5484 or MCF5485 ColdFire V4e microprocessor running up to 200 MHz

Hardware Encryption Engine

+MCF5485 only

PC Card Expansion

Product Features

SDRAM Memory

Flash Memory +Boot flash: 2 or 4 MB

Display

+NOR flash: 0 or 16 MB

+64 MB DDR SDRAM standard

Processor

+CompactFlash Type I card (memory-mapped mode only) supported through the CPLD

+Two PCI 2.2 slots

USB

+One USB 2.0 high-speed device interface

PSC Ports

+Configurable as UART, USART, modem, codec, or IrDA

CAN

