

## 阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

## Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

**PRODUCT BRIEF:**

Logic :: Freescale

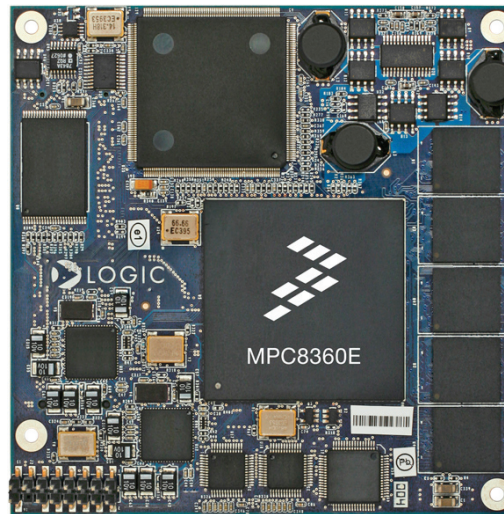
## MPC8360 COM Express System on Module

**The MPC8360 COM Express System on Module (SOM) is a compact, product-ready hardware and software solution that fast forwards embedded designs.**

The MPC8360 SOM adheres to the COM Express Compact form factor and is based on the Type III pin-out specification. This combination offers the essential features for industrial, networking, and medical 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™ PowerQUICC™ Development Kit, developers can write application software on the same hardware that will be used in the final product.

The MPC8360 PowerQUICC™ processor from Freescale Semiconductor provides both control and communications processing in a single chip, making it a cost-effective solution for any product requiring deterministic industrial networking protocols.



MPC8360 COM Express SOM

Designing a product around Logic's SOM allows developers to easily combine their core technologies with the high performance of the MPC8360 PowerQUICC™ processor.

**MPC8360 COM EXPRESS :: HIGHLIGHTS:**

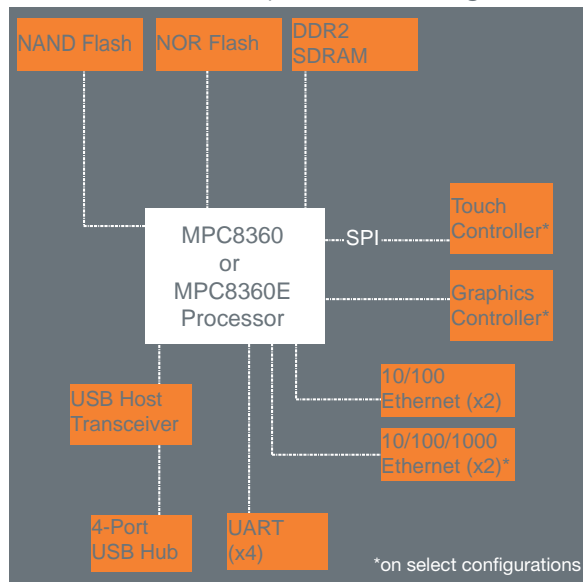
- + Product-ready SOM with the Freescale PowerQUICC™ MPC8360 processor running at 400 MHz or MPC8360E processor running at 667 MHz
- + COM Express Compact form factor 95 mm x 95 mm x 14.5 mm
- + Long product life-cycle
- + U-Boot bootloader installed in flash
- + Linux Board Support Packages (BSPs)
- + 0 °C to 70 °C (commercial temp) or -40 °C to 85 °C (industrial temp)
- + RoHS compliant

**ZOOM™ PowerQUICC™ KIT :: FEATURES:**

- + Application baseboard
- + MPC8360 COM Express SOM (COMMPC8360E-10-2752FCR)
- + Production-ready QUICCEngine™ micro-code for PROFIBUS, IEEE(R) 1588, and Ethernet PowerLink available from third-parties
- + Necessary accessories to immediately get up and running
- + Kit available from Freescale (MPC8360E-RDK)
- + See Zoom™ PowerQUICC™ Development Kit product brief for more information



## MPC8360 COM Express Block Diagram



## MPC8360 COM Express Ordering Information

Model Number	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	NOR Flash (MB)	Graphics/Touch	Ethernet	Temperature
COMMPC8360-10-1652LCR	400	128	64	8	N	10/100	0 °C to 70 °C
COMMPC8360E-10-2752FCR	667	256	64	8	Y	10/100/1000	0 °C to 70 °C

+Contact Logic for availability of industrial temp configurations.

## ZOOM™ PowerQUICC™ Development Kit Ordering Information

Model Number	COM Express Configuration	Recommended Resale
MPC8360E-RDK	COMMPC8360E-10-2752FCR	\$999

### 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](mailto:product.sales@logicpd.com)



embedded product solutions

411 N. Washington Ave. Suite 400 Minneapolis, MN 55401  
T : 612.672.9495 F : 612.672.9489 I : [www.logicpd.com](http://www.logicpd.com)



## Product Features

### Processor

- +Freescale PowerQUICC™ MPC8360 processor running at 400 MHz or MPC8360E processor running at 667 MHz

### SDRAM Memory

- +DDR2; 128, 256, 512 MB, or 1 GB
- +ECC support

### Flash Memory

- +NOR flash; 8 or 16 MB (8 MB standard)
- +NAND flash; 64 or 128 MB (64 MB standard)

### Display

- +Programmable color graphics controller (Fujitsu MB86277)
- +Built-in driver supports up to 1024 x 768 with LVDS interface
- +LVDS can be converted to 18-bit LCD on baseboard

### Touch Screen

- +Integrated 4-wire touch screen controller

### Network Support

- +Two 10/100 Base-T Ethernet controllers for application/debug
- +Two 10/100/1000 Base-T Ethernet controllers for application/debug

### PC Card Expansion

- +32-bit PCI connection

### USB

- +Four USB 2.0 full-speed host interfaces

### Serial Ports

- +Four 16C550 compatible UARTs

### GPIO

- +Programmable I/O depending on peripheral requirements

### Software

- +U-Boot bootloader
- +Linux BSP

### Mechanical

- +COM Express Compact form factor  
95 mm wide x 95 mm long x 14.5 mm high

### RoHS Compliant