

PRODUCT BRIEF:

Logic :: Freescale

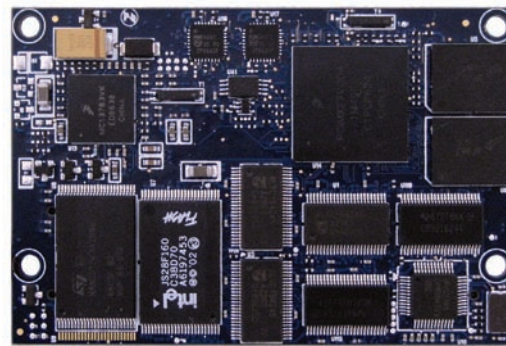
i.MX27 SOM-LV System on Module

The i.MX27 System on Module (SOM) is a compact, product-ready hardware and software solution that fast forwards your embedded product design.

Designed in the SOM-LV form factor, the i.MX27 module offers essential features for handheld and embedded networking applications. Use of custom baseboards makes the SOM-LV the ideal foundation for OEMs developing handheld and compact products. The SOM-LV expansion connectors use a common reference pin-out scheme, which enables easy scalability to next generation microprocessor SOMs when new functionality or performance is required.

Application development is performed right on the product-ready i.MX27 SOM-LV and software Board Support Packages (BSPs), which enables you to seamlessly transfer your application code and hardware into production.

The i.MX27 SOM-LV is ideal for applications in the medical, point-of-sale, industrial, and security markets. From patient monitoring



i.MX27 SOM-LV SYSTEM ON MODULE

and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the i.MX27 SOM-LV allows for powerful versatility and long-life products.

i.MX27 SOM-LV :: HIGHLIGHTS:

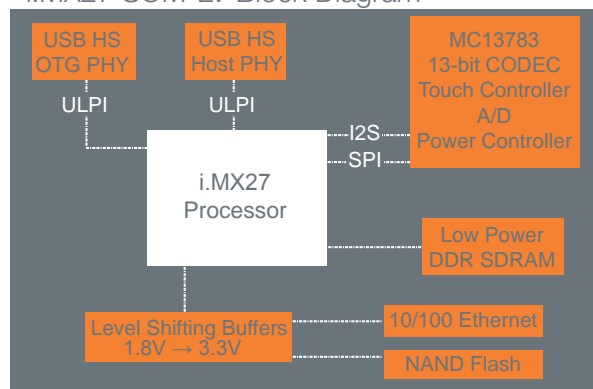
- + Product-ready System on Module with the Freescale i.MX27 processor running up to 400 MHz
- + Compact form factor—SOM-LV Type II 50.8 mm x 76.2 mm x 7.9 mm
- + Long product lifecycle
- + Microsoft Windows® Embedded CE Board Support Packages (BSPs)
- + 0 °C to 70 °C (commercial temp) or -20 °C to 85 °C (extended temp)
- + RoHS compliant

ZOOM™ i.MX LITEKIT :: FEATURES:

- + Application baseboard
- + i.MX27 SOM-LV (MIMX27CSOMCR)
- + Necessary accessories to immediately get up and running
- + Kit available from Freescale (MCIMX27LITEKIT)
- + See i.MX LITEKIT product brief for more information



i.MX27 SOM-LV Block Diagram



i.MX27 SOM-LV Ordering Information

Model Number	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	NOR Flash (MB)	Touch	Audio	Ethernet	Temp
MIMX27BSOMCR	up to 400	64	64	2	Y	Y	Y	0 °C to 70 °C
MIMX27CSOMCR	up to 400	128	64	2	Y	Y	Y	0 °C to 70 °C
MIMX27CSOMXR	up to 400	128	64	2	Y	Y	Y	-20 °C to 85 °C

ZOOM™ i.MX LITEKIT Ordering Information

Model Number	SOM-LV Configuration	Recommended Resale
MCIMX27LITEKIT	MIMX27CSOMCR	\$675

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

- + Freescale ARM926EJ-S i.MX27 processor running up to 400 MHz

SDRAM Memory

- + Low power 266 MHz DDR, 64 or 128 MB (128 MB standard)

Flash Memory

- + 2–4 MB scalable NOR flash (2 MB standard)
- + Scalable NAND flash (64 MB standard)

Display

- + Programmable color LCD controller
- + Built-in driver supports up to 800x600 with 18-bit LCD interface

Touch Screen

- + Integrated 4-wire touch screen controller (Freescale MC13783)

Network Support

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

Audio

- + I2S compliant audio codec (Freescale MC13783— 16-bit stereo DAC, 13-bit ADC)

PC Card Expansion

- + CompactFlash Type I card
- + MMC/SD card support

ATA Support

USB

- + One USB 2.0 high-speed host interface
- + One USB high-speed On-the-Go device interface

Serial Ports

- + Three 16C550 compatible UARTs

GPIO

- + Programmable I/O depending on peripheral requirements

Software

- + LogicLoader™ (bootloader/monitor)
- + Windows® Embedded CE 6.0 BSP

Mechanical

- + SOM-LV Type II form factor
- + 50.8 mm wide x 76.2 mm long x 7.9 mm high

RoHS Compliant

PN: 1007430 Rev C