

PRODUCT BRIEF:

Logic :: NXP

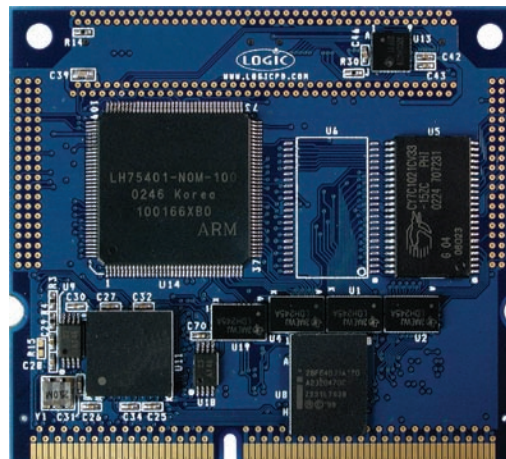
LH75401 CARD ENGINE System on Module

The LH75401 Card Engine is a compact, product-ready hardware and software solution that fast forwards your embedded product design.

The LH75401 Card Engine is a complete System on Module (SOM) that offers essential features for handheld and embedded networking applications. Use of custom baseboards makes the Card Engine the ideal foundation for OEMs developing handheld and compact products. The Card Engine provides a common reference pin-out on its expansion connectors, which enables easy scalability to next generation microprocessor Card Engines when new functionality or performance is required.

Application development is performed right on the product-ready LH75401 Card Engine and software Board Support Packages (BSPs), which enables you to seamlessly transfer your application code and hardware into production.

The LH75401 Card Engine is ideal for applications in the medical, point-of-sale, industrial, and security markets. From patient



LH75401 CARD ENGINE

monitoring and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the LH75401 Card Engine allows for powerful versatility and long-life products.

LH75401 CARD ENGINE :: HIGHLIGHTS:

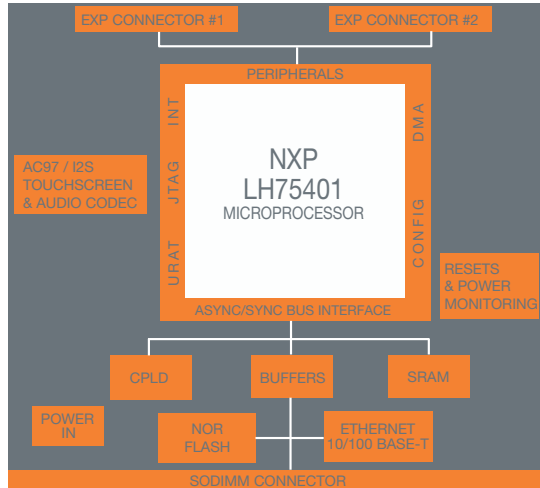
- +Product-ready System on Module with the NXP LH75401 microprocessor running up to 70 MHz
- + Compact form factor—Card Engine 60.2 x 67.8 x 4.4 mm
- + Long product life-cycle
- +0°C to 70°C (commercial temp)

LH75401 ZOOM™ SDK :: FEATURES:

- + Application baseboard
- + LH75401 Card Engine (CENGLH75401-11-101HC)
- + Necessary accessories to immediately get up and running
- + Kit available from Logic (SDK-LH75401-11-0204)
- + See Zoom™ SDK product brief for more information



LH75401 Card Engine Block Diagram



LH75401 Card Engine Ordering Information

Logic Model Number	Speed (MHz)	SRAM (MB)	NAND Flash (MB)	NOR Flash (MB)	Touch	Audio	Ethernet	Temp (°C)
CENGLH75401-11-101HC	70	2	0	4	Y	Y	Y	0 – 70

LH75401 ZOOM™ SDK Ordering Information

Logic Model Number	SOM Configuration	Recommended Resale
SDK-LH75401-11-0204	CENGLH75401-11-101HC	\$299

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

+NXP ARM 7TDMI LH75401 microprocessor running up to 70 MHz

SRAM Memory

+2 MB SRAM standard

Flash Memory

+4 MB NOR

Display

+Programmable color LCD controller
+Built-in driver supports up to 320x240 with 12-bit LCD interface

Touch Screen

+Integrated 4-wire touch screen controller

Network Support

+10/100 Base-T Ethernet controller for application/debug (SMSC LAN 91C111)

Audio

+I2S audio codec—stereo output

PC Card Expansion

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

Serial Ports

+Three 16C550 compatible UARTs
+UARTC can serve as CAN 2.0B interface

SSP

+Supports Motorola SPI, National Semiconductor MICROWIRE, TI SSI

GPIO

+Programmable I/O depending on peripheral requirements

Software

+LogicLoader™ (bootloader/monitor)

Mechanical

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

