PRODUCT BRIEF

Logic :: Texas Instruments www.logicpd.com/ti

OMAP™ 3 SOM-LV System on Module

:: SUPPORTED PROCESSORS

OMAP3530

OMAP3525

OMAP3515

OMAP3503

OMAP3430

The OMAP 3 System on Module (SOM) is a compact, productready hardware and software solution that fast forwards embedded designs.

Based on Texas Instruments' OMAP 3 processor family and designed in the SOM-LV Type III form factor, the OMAP 3 module offers essential features for handheld and embedded networking applications. The OMAP 3 SOM-LV features the superset OMAP3530 processor, but also supports OMAP3525, OMAP3515, OMAP3503, and OMAP3430 processors.

The SOM-LV is an off-the-shelf solution that reduces development risks associated with the complex design and manufacturing details of the OMAP 3 processor. The standard SOM-LV form factor allows developers to reuse existing baseboard designs when upgrading to new OMAP processors, which extends roadmap possibilities for their end-product.

By starting with the corresponding Zoom™ OMAP35x Development Kit or Zoom OMAP34x Mobile Development Kit, engineers can write application software on the same hardware that will be used in the final product.



OMAP 3 SOM-LV SYSTEM ON MODULE

The OMAP 3 SOM-LV is ideal for applications in the medical, point-of-sale, industrial, and security markets. From patient monitoring and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the OMAP 3 SOM-LV allows for powerful versatility and long-life products.

OMAP 3 SOM-LV :: HIGHLIGHTS:

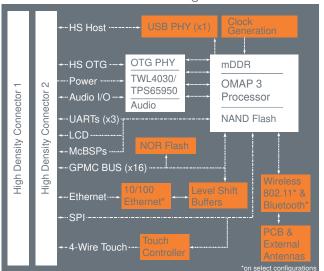
- +Product-ready System on Module with a TI OMAP 3 processor running up to 600 MHz (SOM hardware supports OMAP3530, OMAP3525, OMAP3515, OMAP3503, and OMAP3430 processors)
- +Compact form factor SOM-LV Type III (31 x 76.2 x 7.4 mm)
- +Long product lifecycle
- + Microsoft Windows® Embedded CE 6.0 Board Support Packages (BSPs)
- +Open source Linux™ BSP
- +0°C to 70°C (commercial temp) or -40°C to 85°C (industrial temp)
- +RoHS compliant

ZOOM DEVELOPMENT KIT :: FEATURES:

- +Application baseboard
- +OMAP 3 SOM-LV
- + Necessary accessories to immediately get up and running
- +See Zoom OMAP35x Development Kit product brief for more information
- +See Zoom OMAP34x Mobile Development Kit product brief for more information



OMAP™ 3 SOM-LV Block Diagram



(Block diagram is not drawn to scale. For reference purposes only.)

OMAP 3 SOM-LV Ordering Information

Model Number			NAND Flash (MB)			802.11 Ethernet	Bluetooth
SOMOMAP3503-10-1672IFCR	up to 600	128	256	8	Υ	Υ	Υ
SOMOMAP3503-10-1670HFCR	up to 600	128	256	0	Υ	N	N
SOMOMAP3530-10-1672IFCR	up to 600	128	256	8	Υ	Υ	Υ
SOMOMAP3530-10-1670EFCR	up to 600	128	256	0	N	N	Ν

Zoom[™] OMAP35x Development Kit Ordering Information

Model Number	SOM-LV Configuration
TMDXMEVM3503-L	SOMOMAP3530-10-1672IFCR

NOTE: Zoom OMAP35x Development Kits are available through Logic and Texas Instruments distributors.

Zoom™ OMAP34x™ Mobile Development Kit Ordering Information

Model Number	SOM-LV Configuration
LDP3430-VG1.0.0	SOMOMAP3430-10-1670JFCR

NOTE: Please see the Zoom OMAP34x Mobile Development Kit product brief for configuration information.





76.2 mm

embedded product solutions

411 N. Washington Ave. Suite 400 Minneapolis, MN 55401 T: 612.672.9495 F: 612.672.9489 I: www.logicpd.com

+For more information contact Logic Sales: product.sales@logicpd.com
© 2008 Logic Product Development Company. All rights reserved. PN: 1009584 Rev D

31 mm

This outline represents

the actual size of the

OMAP 3 SOM-LV

Type III form factor.

Product Features

Processor

+TI OMAP 3 processor running up to 600 MHz (SOM hardware supports OMAP3530, OMAP3525, OMAP3515, OMAP3503, and OMAP3430 processors)

SDRAM Memory

+Mobile DDR, 128 or 256 MB (128 MB standard)

Flash Memory

- +Scalable NOR flash (8 MB standard)
- +NAND flash, 256 or 512 MB (256 MB standard)

Display

- +Programmable color LCD controller supports up to a 24 bpp TFT interface
- +Hardware supports XGA 1024x768 at 24-bit color

Touchscreen

+Integrated 4-wire touchscreen controller (TSC2004)

Network Support

- +10/100 Base-T Ethernet controller
- +802.11b/g wireless Ethernet
- +Integrated Bluetooth 2.0 + EDR

Audio

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

PC Card Expansion

- +CompactFlash Type I card (memory-mode only)
- +MMC/SD card support

USB

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

Serial Ports

+Three external UARTs

GPIO

+Programmable I/O depending on peripheral requirements

Software

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

Mechanical

- +SOM-LV Type III form factor
- +31 mm wide x 76.2 mm long x 7.4 mm high

RoHS Compliant