OMAP35x SOM-LV System on Module
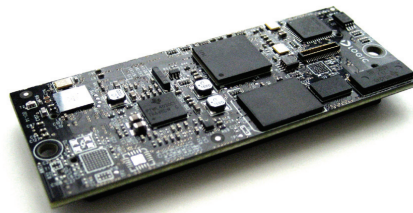
:: SUPPORTED PROCESSORS:
   OMAP3530
   OMAP3503

The OMAP35x System on Module (SOM) is a compact, product-ready 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 OMAP35x module offers essential features for handheld and embedded networking applications. The OMAP35x SOM-LV features the superset OMAP3530 processor, but also supports the OMAP3503 processor.

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, engineers can write application software on the same hardware that will be used in the final product.

OMAP35x SOM-LV

The OMAP35x 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 OMAP35x SOM-LV allows for powerful versatility and long-life products.
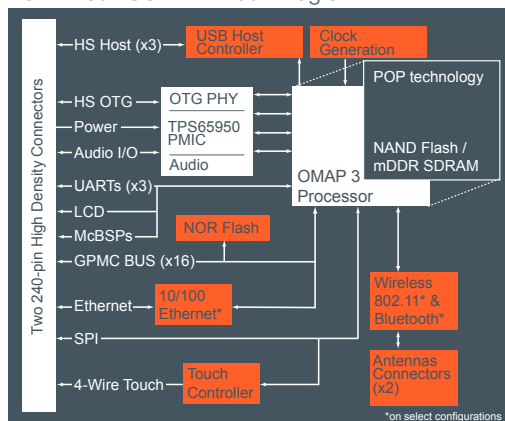
OMAP35x SOM-LV :: HIGHLIGHTS:

+ Product-ready System on Module with a TI OMAP 3 processor running up to 600 MHz
+ Compact form factor—SOM-LV Type III (31.2 x 76.5 x 7.4 mm)
+ Long product lifecycle
+ Microsoft Windows® Embedded CE 6.0 Board Support Packages (BSPs)
+ Open source Linux™ BSP
+ Commercial temp (0℃ to 70℃) Extended temp (-20℃ to 70℃) Industrial temp (-40℃ to 85℃)
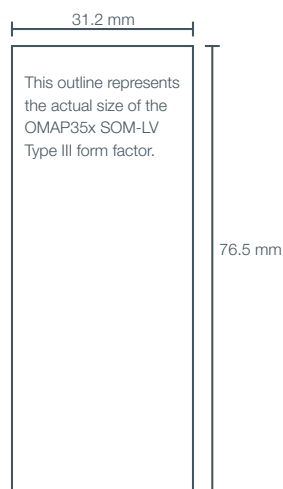+ RoHS compliant

ZOOM DEVELOPMENT KIT :: FEATURES:

+ Application baseboard
+ OMAP35x SOM-LV
+ 4.3" WQVGA LCD with 4-wire touchscreen
+ Necessary accessories to immediately get up and running
+ See Zoom OMAP35x Development Kit product brief for more information

LOGIC PD™

OMAP35x SOM-LV Block Diagram

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

31.2 mm

This outline represents the actual size of the OMAP35x SOM-LV Type III form factor.

76.5 mm

OMAP35x SOM-LV Ordering Information

Model Number	mDDR (MB)	NAND Flash (MB)	NOR Flash (MB)	Wired Ethernet	802.11b/g Ethernet	Bluetooth	Temp. (°C)
SOMOMAP3503-11-1670HFCR	128	256	0	Y	N	N	0°–70°
SOMOMAP3503-11-1672IFCR	128	256	8	Y	Y	Y	0°–70°
SOMOMAP3530-11-1670EFCR	128	256	0	N	N	N	0°–70°
SOMOMAP3530-11-1672IFCR	128	256	8	Y	Y	Y	0°–70°
SOMOMAP3530-11-1672IFXR	128	256	8	Y	Y	Y	-20°–70°
SOMOMAP3530-11-1782JFIR	256	512	8	Y	N	Y	-40°–85°

NOTE: Custom configurations are available by special order. Please contact Logic PD Sales for details: product.sales@logicpd.com.

Zoom™ OMAP35x Development Kit Ordering Information

Model Number	SOM-LV Configuration
TMDSMEVM3530-L	SOMOMAP3530-11-1672IFCR

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

Product Features

Processor
+ TI OMAP 3 processor running up to 600 MHz

Memory
+ Mobile DDR / NAND flash (PoP technology)
  128 MB / 256 MB (standard)
  256 MB / 512 MB (standard for I-Temp)

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
+ 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
+ 31.2 mm wide x 76.5 mm long x 7.4 mm high

RoHS Compliant

LOGIC PD™

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

TEXAS INSTRUMENTS
OMAP

+ For more information contact Logic PD Sales : product.sales@logicpd.com
© 2010 Logic Product Development Company. All rights reserved. PN: 1009584 Rev I