PRODUCT BRIEF:
Logic PD :: Texas Instruments
www.logicpd.com/ti

OMAP35x SOM-LV System on Module

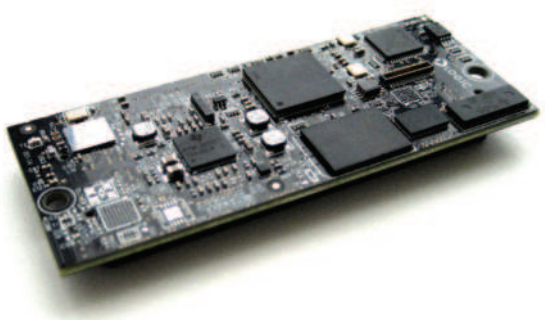
:: SUPPORTED PROCESSORS:
OMAP3530
OMAP3503

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:

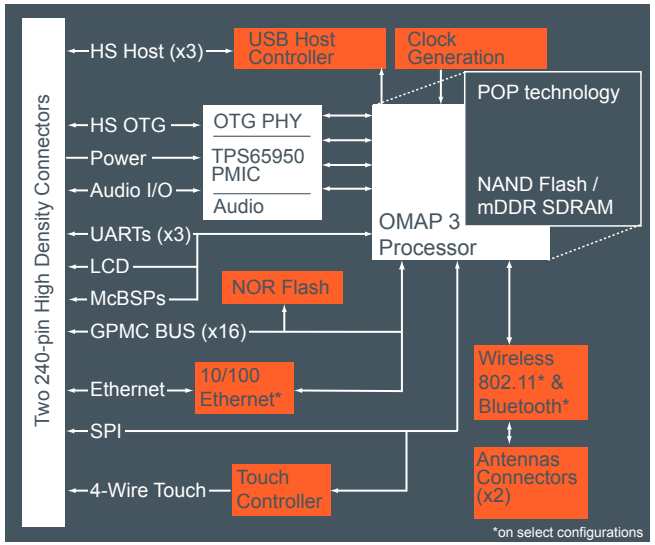
+ Product-ready System on Module with a TI OMAP 3 processor running up to 600 MHz
+ Compact form factor—SOM-LV Type III (31.2 x 76.5 x 7.4 mm)
+ Long product lifecycle
+ Microsoft Windows® Embedded CE 6.0 Board Support Packages (BSPs)
+ Open source Linux™ BSP
+ Commercial temp (0°C to 70°C)
  Extended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

ZOOM DEVELOPMENT KIT :: FEATURES:

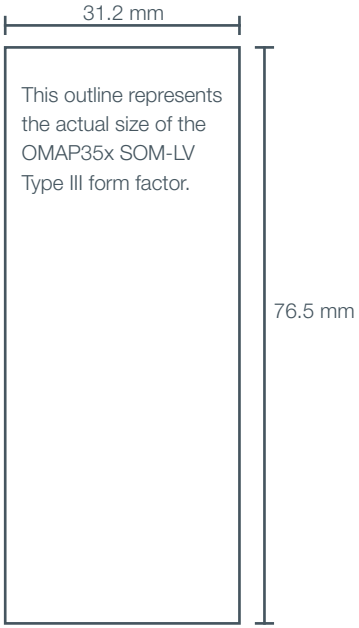
+ Application baseboard
+ OMAP35x SOM-LV
+ 4.3" WQVGA LCD with 4-wire touchscreen
+ Necessary accessories to immediately get up and running
+ See Zoom OMAP35x Development Kit product brief for more information

LOGIC PD™

OMAP35x SOM-LV Block Diagram



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



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