Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

OMAP™ 3 SOM-LV System on Module
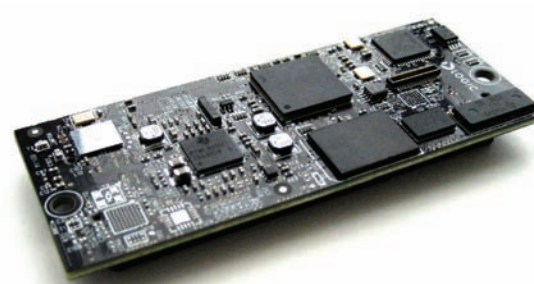
:: SUPPORTED PROCESSORS:
   OMAP3530
   OMAP3525
   OMAP3515
   OMAP3503
   OMAP3430

The OMAP 3 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 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.
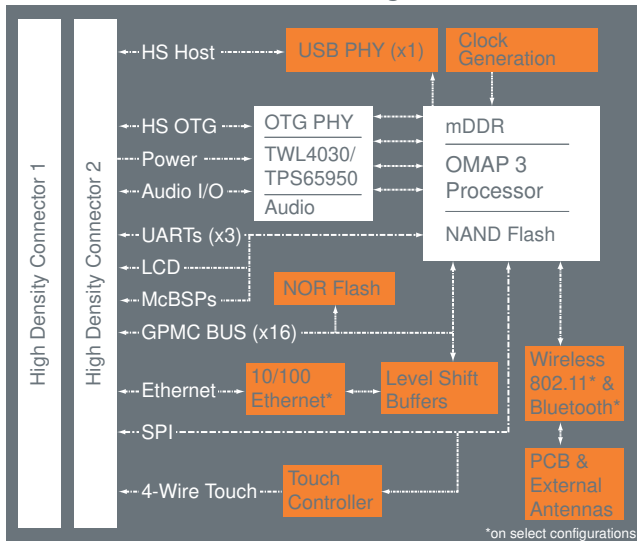
OMAP 3 SOM-LV :: HIGHLIGHTS:

+ 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℃ to 70℃ (commercial temp) or -40℃ to 85℃ (industrial temp)
+ RoHS compliant

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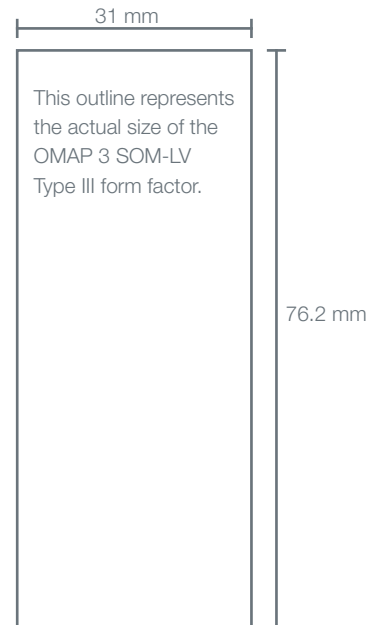
+ Application baseboard
+ OMAP 3 SOM-LV
+ Necessary accessories to immediately get up and running
+ See Zoom OMAP35x Development Kit product brief for more information
+ See Zoom OMAP34x Mobile Development Kit product brief for more information

LOGIC

OMAP™ 3 SOM-LV Block Diagram

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

*on select configurations

31 mm

76.2 mm

This outline represents the actual size of the OMAP 3 SOM-LV Type III form factor.

OMAP 3 SOM-LV Ordering Information

Model Number	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	NOR Flash (MB)	Wired Ethernet	802.11 Ethernet	Bluetooth
SOMOMAP3503-10-1672IFCR	up to 600	128	256	8	Y	Y	Y
SOMOMAP3503-10-1670HFCR	up to 600	128	256	0	Y	N	N
SOMOMAP3530-10-1672IFCR	up to 600	128	256	8	Y	Y	Y
SOMOMAP3530-10-1670EFCR	up to 600	128	256	0	N	N	N

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.

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

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embedded product solutions

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