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

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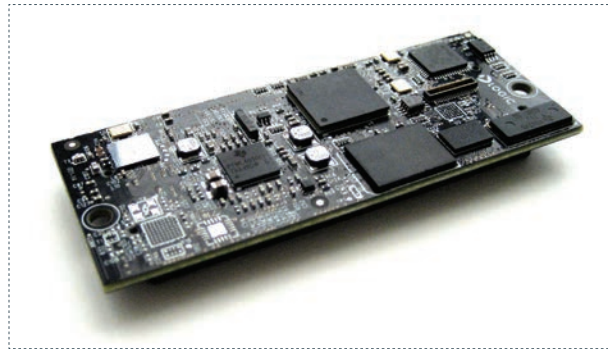
:: SUPPORTED PROCESSORS:
  OMAP3530
  OMAP3503

The OMAP35x System on Module (SOM) is a compact, product-ready hardware and software solution that fast forwards embedded designs.

Based on the Texas Instruments (TI) OMAP 3 processor family and designed in the SOM-LV Type III form factor, the OMAP35x SOM-LV 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 OMAP35x 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 end-products.

The OMAP35x SOM-LV is ideal for applications in the medical, point-of-sale, industrial, and security markets.

OMAP35x SOM-LV

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.

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.
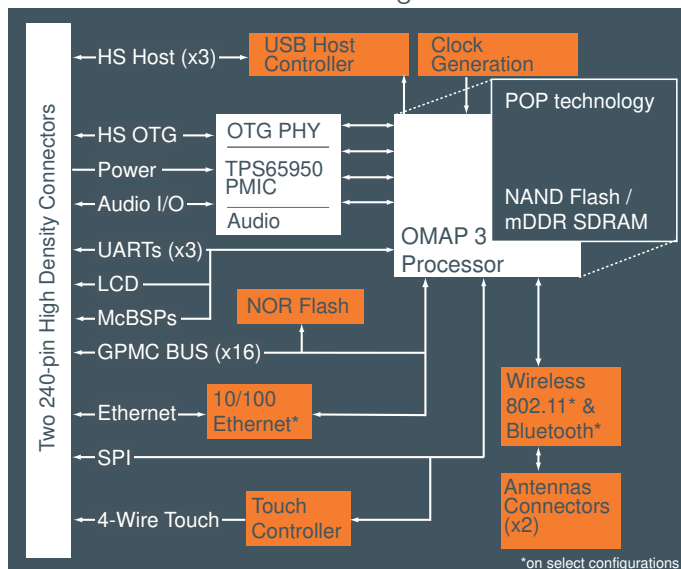
OMAP35x SOM-LV :: HIGHLIGHTS:

+ Product-ready System on Module with a TI OMAP 35x 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 Package (BSP)
+ Open source Linux™ BSP
+ Extended temp (-20℃ to 70℃) Industrial temp (-40℃ to 85℃) Commercial temp in kit (0℃ to 70℃)
+ RoHS compliant

ZOOM OMAP35x 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 the *Zoom OMAP35x Development Kit Product Brief* for more information

LOGIC PD™

OMAP35x SOM-LV Block Diagram

NOTE: Block diagram is for reference purposes only; it is not drawn to scale.

31.2 mm

This outline represents the actual size of the OMAP35x SOM-LV.

76.5 mm

OMAP35x SOM-LV Ordering Information

Model Number[1]	mDDR (MB)	NAND Flash (MB)	NOR Flash (MB)	Wired Ethernet	802.11b/g Ethernet	Bluetooth	Temp. (°C)
SOMOMAP3503-11-1782GFIR[2]	256	512	8	Y	N	N	-40°–85°
SOMOMAP3530-11-1782IFXR	256	512	8	Y	Y	Y	-20°–70°
SOMOMAP3530-11-1782JFIR	256	512	8	Y	N	Y	-40°–85°

NOTES: 1. Custom configurations are available by special order. Please contact Logic PD Sales for details.
2. Does not include touch controller.

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 TI distributors.

Product Features

Processor
+ TI OMAP 3 processor running up to 600 MHz

Memory
+ Mobile DDR / NAND flash (PoP technology)
   128 MB / 256 MB (kit SOM)
   256 MB / 512 MB (standard SOMs)

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 WEBSITE :: DESIGN RESOURCES:

+ Logic PD Products : www.logicpd.com/products
+ Logic PD Technical Support : www.logicpd.com/support
+ Logic PD Sales : www.logicpd.com/contact/inquiry

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