

PRODUCT BRIEF:
Logic

OMAP35x Linux Board Support Package

Logic is proud to offer a complete and stable Linux solution for our OMAP35x SOMs. We do our best to strike a balance to stay current with the offerings from the open-source community, provide a stable and tested platform that our customers can build from, and give back to the open-source community.

Understanding the wide variety of experience that Linux developers bring to Logic's products, we provide four offerings to suit both the novice and experienced.

Logic provides pre-built binary images that are suitable for engineers who want to quickly test drive Logic's hardware and Linux. The binary image consists of a single file—loadable by LogicLoader—that contains U-Boot, the Linux kernel, and a root file system.

For customers who are comfortable rolling their own embedded Linux systems, Logic provides patches to U-Boot and the Linux kernel used in the pre-built images. These patches apply cleanly to pristine sources and come complete with the configuration files and documentation for the tools that Logic used to build them (gcc, etc.).

Linux Target Image Builder (LTIB) is an open source tool used to develop and deploy board support packages, cross-compilers, and root file systems for a variety of hardware platforms. Logic provides a version of LTIB, as well as a set of supported profiles (userland packages) that have been tested and are suitable for customer use.

Logic is pleased to partner with Timesys to provide an excellent Linux solution for customers. Logic supplies Timesys with board support packages and Timesys integrates support for Logic's hardware platforms into their tools: LinuxLink and Factory.

Product Features

Advanced Features

- + DSPLink / sample DSP applications / DSP application note
- + CodecEngine (DSP support for plug-in multimedia CODECs)
- + Vector Floating Point acceleration
- + Power management system (suspend, DVFS¹, SmartReflex¹)

User Interface

- + Display driver (support for custom displays)
- + Touch screen (4-wire resistive)
- + Audio in/out
- + USB HID support

Communications

- + 802.11 b/g Wi-Fi
- + Bluetooth
- + Serial (UART, SPI, I2C, MCBSP)
- + Ethernet 10/100 MB/s
- + USB OTG (USB 2.0 high-speed, host and/or function)
- + USB Host (USB 2.0 high-speed)

Memory Support

- + MMC/SDIO/SDHC
- + NAND flash—YAFFS or JFFS2
- + NOR flash—YAFFS or JFFS2
- + CompactFlash

Toolchains

- + LTIB (savannah.nongnu.org/projects/ltib)
- + Timesys (linuxlink.timesys.com/3/Linux/Logic)
- + CodeSourcery (www.codesourcery.com/)

OMAP35x Linux BSP :: HIGHLIGHTS :

- + Available in source code format
- + Linux kernel version 2.6.28+
- + GCC 4.3.3
- + Out of the box pre-built demo for instant deployment

LOGIC WEBSITE :: DESIGN RESOURCES :

- + Logic Products : www.logicpd.com/products
- + Logic Technical Support : www.logicpd.com/product-support
- + For more information contact Logic sales : product.sales@logicpd.com

NOTES :

- (1) Contact sales for more information.



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