# OMAP-L138 LCDK Linux SDK 1 00 00 Release Notes

**Linux Software Development Kit (SDK) 1_00_00 for OMAP-L138 LCDK**

This is a Beta release of the OMAP-L138 Linux SDK for the L138/ C6748 Development Kit (LCDK). This SDK contains the needed tools to develop Linux applications for the ARM9 core on OMAP-L138 as well as the tools for C674 DSP core development.

**NOTE: this Linux SDK contains content specific to the LCDK only. If you need to develop software for your own platform based on OMAP-L138, please use the standard OMAP-L138 SDK release that is based on the LogicPD EVM. Information on this SDK can be found at the OMAP-L138 product folder [1].**

The following table lists the major software components that were included and their purposes:

### LCDK Linux SDK Main Software Components

| Software Components | Purpose |
|---|---|
| U-boot source | LCDK Bootloader. Loads Linux kernel from MMC/SD, NAND or NFS |
| Linux Kernel 3.1.10 | Hi-level operating system with drivers and I/O stacks running on ARM9 |
| ARMv5 File System | Bootable target file system that can be mounted via SD card or NFS |
| GCC 4.5.3 Tool Chain | Open source GNU tools to cross compile ARM target programs |
| SysBIOS 6.33.02.31 | Real-Time OS for C674 DSP |
| SysLink 2.10.03.20 | Inter-Processor Communication (IPC) software to communicate between Linux and DSP applications |
| C6x 7.3.1 Tool Chain | TI C6000 ISA tool chain to build DSP-side applications |

## Available Documentation

Release Notes (this document)

Quick Start Guide (included with LCDK)

Getting Started Guide [2] (also included as part of SDK)

Software Developer's Guide [3]

LCDK User's Guide [4]

## Linux Kernel 3.1.10

This is a port of the Linux 3.1.10 from kernel.org specifc for LCDK. Following are the avaialble drivers for this release:

| LCDK Peripheral and Port Connector | Driver |
| --- | --- |
| VGA Out display (J8) | FBdev |
| Stereo sound playback and capture (J10) | ALSA |
| USB Host 1.1 (J5) | USB Host |
| SD/MMC | SD/MMC |
| UART (J3) | Serial |
| Ethernet (J13) | Ethernet/ Network |
| SATA (J7) | Block |
| Watchdog (internal) | watchdog |
| RTC (internal) | RTC |

### Host Support

This release only supports Ubuntu 10.04 LTS 32-bit as your development host.

### Device Support

This SDK only supports the OMAP-L138 LCDK.

### Technical Support and Product Updates

For the latest update to this software, check the LCDK product folder URL on the Quick Start Guide provided with the LCDK.

## References

[1]  http://www.ti.com/product/OMAP-L138
[2]  http://processors.wiki.ti.com/index.php/OMAP-L138_LCDK_Linux_SDK_Getting_Started_Guide
[3]  http://processors.wiki.ti.com/index.php/OMAP-L138_LCDK_Linux_Software_Developer%27s_Guide
[4]  http://processors.wiki.ti.com/index.php/LCDK_User_Guide

# Article Sources and Contributors

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