

OMAP3530 DVSDK 4_01_00_09 Release Notes

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Digital Video Software Development Kit (DVSDK) 4_01_00_09 for the OMAP3530

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This is a Generally Available (GA) release of the DaVinci Software Development Kit (DVSDK) 4_01_00_09 for the OMAP3530 platform. This DVSDK Software release gives developers the ability to evaluate the hardware and software capabilities of the OMAP3530 platform. Developers will be able to evaluate the ARM Linux programming environment and easily utilize the hardware support for the powerful multimedia codecs.

This document is divided into the following sections:

Contents

- [1 Digital Video Software Development Kit \(DVSDK\) 4_01_00_09 for the OMAP3530](#)
 - ◆ [1.1 Documentation](#)
 - ◆ [1.2 Content Overview](#)
 - ◆ [1.3 What's New](#)
 - ◆ [1.4 Installation and Usage](#)
 - ◆ [1.5 Host Support](#)
 - ◆ [1.6 Dependencies](#)
 - ◆ [1.7 Device Support](#)
 - ◆ [1.8 Validation Information](#)
 - ◆ [1.9 Upgrade and Compatibility Information](#)
 - ◆ [1.10 Known Issues and Limitations](#)
 - ◆ [1.11 Versioning](#)
 - ◆ [1.12 Technical Support and Product Updates](#)

Documentation

- Latest up to the minute information and updates may be found on the [Texas Instruments Embedded Processors Wiki](#).
- The *Quick Start Guide* contains information on how to set up your board for an out of box demo showcase as well as for software development. It is located in the *docs/* folder in the DVSDK along with other documentation.

- The *Software Developer's Guide* contains information on how to start developing software on the OMAP3530 board and is located in the *docs/* folder in the DVSDK installation along with other documentation.

Content Overview

The OMAP3530 Linux DVSDK includes the following components:

- Platform Support Package
 - ◆ Linux kernel 2.6.32
 - ◆ Boot loaders (u-boot, x-loader)
- Multimedia Package
 - ◆ Multimedia Framework Product (MFP)
 - ◇ Codec Engine Framework
 - ◇ Framework Components
 - ◇ Linux Utils (CMEM)
 - ◇ XDAIS (eXpress DSP Algorithm Interoperability Standard)
 - ◆ Davinci Multimedia Application Interface (DMAI)
 - ◆ DSP Optimized codecs
 - ◇ Encoders: H.264, MPEG-4, JPEG, G711
 - ◇ Decoders: H.264, MPEG-4, MPEG-2, AAC, JPEG, G711
 - ◆ DSP accelerated Gstreamer TI plugin
- DSP Package
 - ◆ C6000 code generation tool chain
 - ◆ DSP/BIOS Real Time Operating System
 - ◆ DSPLink Inter Processor Communication
 - ◆ C6Accel - easy access to DSP accelerated function libraries
 - ◆ C6Run - tool to easily run C code on the DSP
- Graphics Package
 - ◆ Neon accelerated Qt/WebKit application framework
 - ◆ 3D Graphics Support

What's New

The following high-level features are new from the previous SDKs:

- Includes Graphics SDK 4_01_00_09_00_00_1

Installation and Usage

The *Software Developer's Guide* contains information on how to start developing software on the OMAP3530 device and is located in the *docs/* folder in the DVSDK installation along with other documentation.

Host Support

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

Dependencies

The DVSDK requires the CodeSourcery toolchain, a link is provided on the DVSDK 4.xx Release Page or provided with a CD in your kit.

QualiTI tool requires the Code Generation Tools XML Output Perl Utility Scripts (CG XML) that is not included in the DVSDK. The CG XML component is available [here](#)

Device Support

This DVSDK supports the OMAP3530 EVM

Validation Information

This release has been tested with ES 3.1 Silicon with EVM Base board Revision-G and processor card Revision-C.

MMC booting on an EVM with ES2.1 silicon populated with Samsung OneNAND memory requires patching u-boot as described in [Rebuilding U-boot](#). After rebuilding u-boot, copy the new u-boot.bin to the SD Card and configure the DIP switch SW4 to boot from MMC/SD (on EVM with Samsung OneNAND) as described in [Selecting Boot Mode](#)

Upgrade and Compatibility Information

There are no known upgrade or compatibility issues with DVSDK 4_01_00_09.

Known Issues and Limitations

- SDOCM00078110 - DVTB : Video decode script viddec2.dvs not working for H264 and MPEG4.
- SDOCM00074069 - High ARM load seen with GStreamer pipelines involving the ISP resizer.
- SDOCM00073578 - First few frames of the edge detection demo having video frames at 600 and 300 mpurate.
- SDOCM00073445 - Quality issue with edge detection demo.
- SDOCM00073290 - Run time switch from LCD to DVI (and visa versa) the OSD overlap time DVSDK decode demo runs.
- SDOCM00073286 - S-video display has noise.
- SDOCM00073168 - Installer deletes the entire contents of the install folder when installation is cancelled.

More details on the known issues can be found on the [DSP Tools and Software Bug Search page](#). You must be a registered user on my.ti.com before you request a new account for the SDOWP database.

Versioning

This is a Generally Available (GA) release (DVSDK 4_01_00_09) for OMAP3530.

Technical Support and Product Updates

Latest up to the minute information and updates may be found on the [Texas Instruments Embedded Processors Wiki](#).

The [Embedded Software Linux forum](#) is a forum for discussing the Linux DVSDK development. New versions of the DVSDK are also announced here.

The [DVSDK download page](#) is a top level page for finding the latest DVSDK releases for all TI platforms.