

DRA7xx GLSDK 6.10.00.02 Post-release Updates

This page contains post-release updates to GLSDK 6.10.00.02 for DRA7xx

Features Added Post GLSDK 06.10.00.02 release

- HS(High secure) boot mode support
 - Supports booting of HS devices only if authentication of u-boot/kernel/DTB binaries are successful, for more information refer to [HS-boot \(http://processors.wiki.ti.com/index.php/DRA7xx_GLSDK_Software_Developers_Guide#Boot_Over_UART_Procedure\)](http://processors.wiki.ti.com/index.php/DRA7xx_GLSDK_Software_Developers_Guide#Boot_Over_UART_Procedure).
- UART boot mode support
 - Support for UART peripheral boot mode, this requires board modification, refer to User's Guide for more detail procedure at [UART-boot \(http://processors.wiki.ti.com/index.php/DRA7xx_GLSDK_Software_Developers_Guide#Boot_Over_UART_Procedure\)](http://processors.wiki.ti.com/index.php/DRA7xx_GLSDK_Software_Developers_Guide#Boot_Over_UART_Procedure)
- SATA (Serial ATA) support
 - Support for SATA Gen-1/Gen-2/Gen-3 devices.
- DRA7xx EVM RevG and 10 inch LCD panel support
 - Added a separate dts file for EVMs with 10' LG lcd panel, to build the dtb for EVMs with 10' panel do

```
make dra7-evm-lcd10.dtb
```

update the boot.scr to use dra7-evm-lcd10.dtb

- Thermal Management
 - Temperature control support via cooling device for MPU using DVFS/CPUFreq and temperature monitoring, trip points and emulation support for all other thermal zones
- Triple Display support
 - The 3.12 kernel has been updated with the support for triple display. The third display is connected over FPDLink and driven by DPI3.

Defect Fixes and Patch Updates

Defect/ER ID	Description	Patch Details	Comments
OMAPS00307731, OMAPS00310685	UART-DMA support	(patches not merged, apply manually) http://review.omapzoom.org/35755 http://review.omapzoom.org/35756 http://review.omapzoom.org/35757 http://review.omapzoom.org/35758 http://review.omapzoom.org/35759 http://review.omapzoom.org/35760 http://review.omapzoom.org/35761 http://review.omapzoom.org/35762 http://review.omapzoom.org/35763 http://review.omapzoom.org/35764 http://review.omapzoom.org/35765 http://review.omapzoom.org/35766 http://review.omapzoom.org/35767 http://review.omapzoom.org/35768 http://review.omapzoom.org/35769 http://review.omapzoom.org/35770 http://review.omapzoom.org/35771 http://review.omapzoom.org/35772 http://review.omapzoom.org/35773	The uart-patches are backported from 3.16-rc5 kernel 1.Apply all these patches. 2.Menuconfig -> Device Drivers -> Character devices ->Serial drivers Deselect CONFIG_SERIAL_OMAP (< > OMAP serial port support). select Select CONFIG_SERIAL_8250_OMAP [<* > Support for OMAP internal UART (8250 based driver)] 3. update bootargs, set console=/dev/ttyS0 4.Edit /etc/inittab replace ttyO0 to ttyS0.
	Rev G and 10 lcd panel support	Kernel (patches merged) http://review.omapzoom.org/#/c/35821/ http://review.omapzoom.org/#/c/35822/ http://review.omapzoom.org/#/c/35823/ U-Boot (patches merged) http://review.omapzoom.org/#/c/35829/	These patches enable the support to boot on Rev G board and also add support for the 10 inch LCD panel - LG101
	HS boot mode support	(patches merged) http://review.omapzoom.org/#/c/35779	ARM: OMAP4+: refactor sram allocation.
	Thermal Management: Update power off strategy to enable quick shutdown	(patches merged) http://review.omapzoom.org/#/c/35932/	This patch enables a quick shutdown procedure in case any thermal zone hits the critical temperature.
	VIP Multi channel capture support	(patches merged) http://review.omapzoom.org/35788 http://review.omapzoom.org/35789 http://review.omapzoom.org/35790	These patches enable multi channel analog capture use case(verified 4channel line-interleaved video from TVP5158)
OMAPS00314618	VIP memory corruption after streamOFF	(patches merged) http://review.omapzoom.org/#/c/35876/	This patch immediately stops active DMAs in streamOFF to avoid memory corruption
OMAPS00313628	VPE multi instance fix for NV12 source	(patches merged) http://review.omapzoom.org/#/c/35872/	This patch fixes the hang observed in multi instance VPE use cases for NV12 source
	Triple display: Enable triple display; via DPI3 and FPDLink interface.	(patches merged) http://review.omapzoom.org/#/c/35940/ http://review.omapzoom.org/#/c/35939/	This set of patches enables the triple display support in 6.10 GA release. The patches are already merged in the 3.12 kernel.

		http://review.omapzoom.org/#/c/35938/ http://review.omapzoom.org/#/c/35937/ http://review.omapzoom.org/#/c/35936/ http://review.omapzoom.org/#/c/35935/ http://review.omapzoom.org/#/c/35934/ http://review.omapzoom.org/#/c/35933/	
OMAPS00318757	GEM memory leak in SGX kernel module	(patches merged) https://git.ti.com/graphics/omap5-sgx-ddk-linux/commit/0f3561a47cf7a1b968fb64446a0be10abc9a15d5	This patch fixes the GEM handle leaks observed in SGX kernel module for 3.12 kernel. This issue was not present in earlier 3.8 kernel.
	MPU_DPLL Duty cycle correction issue for frequency above 1.4GHz	merge pending http://review.omapzoom.org/36327 http://review.omapzoom.org/36328 http://review.omapzoom.org/36329	This patches add support to enable Duty Cycle Correction (dcc) when MPU_DPLL goes above 1.4GHz
	DPLL_Videon may require multiple lock attempts	merge pending http://review.omapzoom.org/#/c/38833/	This patches adds a work around for errata i932, where the Videon PLL may fail to lock on the first try in very rare circumstances.

Post Release: Known Issues and Limitations

None

1. switchcategory:MultiCore= - For technical support on MultiCore devices, please post your questions in the C6000 MultiCore Forum - For questions related to the BIOS MultiCore SDK (MCSDK), please use the BIOS Forum Please post only comments related to the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here.	Keystone= - For technical support on MultiCore devices, please post your questions in the C6000 MultiCore Forum - For questions related to the BIOS MultiCore SDK (MCSDK), please use the BIOS Forum Please post only comments related to the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here.	C2000=For technical support on the C2000 please post your questions on The C2000 Forum. Please post only comments about the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here.	DaVinci=For technical support on DaVincoplease post your questions on The DaVinci Forum. Please post only comments about the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here.	MSP430=For technical support on MSP430 please post your questions on The MSP430 Forum. Please post only comments about the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here.	OMAP35x=For technical support on OMAP please post your questions on The OMAP Forum. Please post only comments about the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here. OMAPL1=For technical support on OMAP please post your questions on The OMAP Forum. Please post only comments about the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here. MAVRK=For technical support on MAVRK please post your questions on The MAVRK Toolbox Forum. Please post only comments about the article DRA7xx GLSDK 6.10.00.02 Post-release Updates here. For technical support on please post your questions at http://e2e.ti.com. Please post on comments about article DRA7xx GLSDK 6.10.00.02 Post-release Updates here.
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