

## **MX31ADS Linux BSP Release History**

No.	Version	Key Features – What's New
	Number /	
	Release	
Alalaa	Date	Dra built Linux O.C.40 kamal and nackana with these factures.
Alpha	20050922	Pre-built Linux-2.6.10 kernel and packages with these features:    IABET   On a big % Fixture of the content of the conte
		UARTOn chip & External     Framehuffer
		<ul><li>Framebuffer</li><li>Ethernet</li></ul>
		o Keypad o SPI
		o Touchscreen
		o iMagic MI8012 camera
		<ul> <li>Video4Linux Pre-Processing support</li> </ul>
		o I2C
		○ Video Post-Processing
		<ul> <li>Video Pre-Processing</li> </ul>
		o ATA – PIO Mode
		Redboot version FSL 200539
		GNU ARM gcc 3.4.3, glibc2.3.4, binutils 2.16, and linux-libc-headers-2.6.11.2
Beta	20051222	Linux-2.6.10 kernel
		- UARTOn chip
		- Framebuffer
		- Syncronous Display
		- Asychronous Display
		- Keypad - TV-OUT VGA mode
		- TV-001 VGA mode
		- SPI
		- Touchscreen
		- iMagic IM8012 camera
		- Video4Linux: Pre-Processing support, SDC, ADC, iMagic Camera
		- I2C
		- Video Post-Processing
		- Video Pre-Processing
		- ATA – 0-4 PIO Mode, UDMA 0-3 Mode
		- Audio – OSS, 44.1 KHz, stereo
		- USB Host: Mass Storage
		- USB Gadget: Mass Storage, Ethernet, HID devices
		- Power Management: Doze mode, backlight control, DPM, DPTC, DVFS
		- Battery Gauge - NAND Boot, MTD
		- NOR Boot, MTD
		- CodeTEST
		- RTC
		- Watchdog
		Redboot version FSL 200544
		GNU ARM gcc 3.4.4, glibc 2.3.4, binutils-2.15.94, and linux-libc-headers-2.6.11
1	20060217	- Linux-2.6.10 kernel
'	(FCS)	- UARTOn chip
	(. 55)	- Framebuffer
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		- Syncronous Display - Asychronous Display - Keypad - TV-OUT VGA mode - Ethernet - SPI - Touchscreen - iMagic IM8012 camera - Video4Linux: Pre-Processing support, SDC, ADC, iMagic Camera - I2C - Video Post-Processing - Video Pre-Processing - ATA PIO 0-4 Mode, UDMA 0-3 Mode - OSS Audio: 44.1 kHz, 16 bits, stereo output - USB Host: Mass Storage - USB Gadget: Mass Storage, Ethernet, HID devices - Power Management: Doze mode, backlight control, DPM, DPTC, DVFS - Battery Gauge - NAND Boot, MTD - NOR Boot, MTD - NOR Boot, MTD - CodeTEST - RTC - Watchdog - PCMCIA  Redboot version FSL 200606 NAND Boot - GNU ARM gcc 3.4.3, glibc 2.3.4, binutils-2.16, and linux-libc-headers-2.6.11
2	20060707	- Linux-2.6.16 kernel - UARTOn chip - Framebuffer - Syncronous Display - Asychronous Display - NEC VGA Panel - Keypad - TV-OUT VGA, NTSC, PAL - Ethernet - SPI - Touchscreen - iMagic IM8012 camera - Video4Linux: Pre-Processing support, SDC, ADC, iMagic Camera - I2C - Video Post-Processing - Video Pre-Processing - Video Pre-Processing - ATA PIO 0-4 Mode, UDMA 0-3 Mode - ALSA Audio with OSS emulation - USB Host: Mass Storage - USB Gadget: Mass Storage, Ethernet, HID devices - USB OTG pin detect - Power Management: Doze mode, backlight control, DPM, DPTC, DVFS - Battery Gauge - NAND Boot, MTD - NOR Boot, MTD - CodeTEST - RTC - Watchdog

		- PCMCIA
		- Hantro - OpenGLES
		- Орспоссо
		Redboot version FSL 200617
		NAND Boot
		GNU ARM gcc 4.1.1, glibc 2.4, binutils-2.16, and
		linux-libc-headers-2.6.16
	00070407	GDB 6.4
3	20070127	Changes for this release include:
		Updates
		2.6.19.2 kernel
		4.1.1-6 gcc toolchain
		Redboot 200639
		New Features
		Qtopia
		Magnapix MC521DA 2MP camera
		SD/SDIO support
		Bug fixes
		110 glibc math libs not built with VFP
		111 shm (shared memory) not working properly
		129 ipc_perm structure has different definitions on user space and on kernel space
		184 df command can't find the root device on a jffs2 rootfs deployment
		186 init.d/local isn't being run 206 multiple uarts can't be initialized
		213 TLSbo80902 Audio recording doesn't work
		217 I2C stop condition setup timing violation
		266 VFP: Error: unhandled bounce
		270 When inserting SD card to i.MX31 ADS board, console hangs
		275 TLSbo79471 XIP: while the kernel is booting it crashes in the NAND driver
		TLSbo76692 Change I2C functions and video encoder API in i.MX27/i.MX31 FS453 306 driver
		308 TLSbo79526 RTIC test fails on i.MX31 ADS
		309 TLSbo83375 startup script probe of i.MX31 ADS PCMCIA socket failed
		313 TLSbo82176 i.MX31: MMC driver doesn't work
		314 DSPhl28279 Enhance the clock API to retrieve more clocks such as GPT on i.MX31
		315 TLSbo70205 PLL relock API on i.MX31 causes kernel crashes if DDR is used
		316 TLSbo74373 Remove WFI software workarounds for i.MX31 317 TLSbo77678 i.MX31 ADS EXPIO: Spurious interrupt
		318 TLSbo77676 i.MX31 workaround ARM11 bug: I-cache corruption on WFI
		319 TLSbo75077 Eliminate i.MX31ehci-arc dependency on usb create hcd
		320 TLSbo76813 Correct SMBUS support in I2C driver
		322 TLSbo76010 Change MXC RTC driver to use PMIC RTC APIs
		323 TLSbo77477 RTC - move plaform_device_register to devices.c
		324 TLSbo75293 Implementing the review comments for Community SPI driver
		325 TLSbo76282 Static analysis errors in spi-core.c
		326 TLSbo79767 SPI driver out of bounds if CONFIG_SPI_NB_MAX is 2
		327 TLSbo81059 SPI reads/writes problematic in L26.1.17 335 MX31ADS usb doc missing important conflict pin info.
		337 TLSbo85807 ALSA: Playback on Voice Codec produces noise occasionally
		339 touchscreen driver gets stuck after sometime
		343 ALSA driver multiple open fail

		345 i.mx31 PM & video capturing issue
		346 Ensure splash screen is up to date in final kernel
		353 jffs2 flash erase size default should be 128
		363 MXC IDE Hangs on unload/reload
		357 DPM missing from release
		364 MBX package needs updating for release 3
		365 MXC_TS kernel_thread not suspend able
4	20070511	Updates
		Redboot 200712
		DVFS support for 399Mhz Porting Guide from 2.6.16 to 2.6.19 kernel
		Mx31 linux.pdf
		Individual configuration options for USB H1 and H2 ports
		USB modules autoload
		New Features
		Gstreamer
		Bug Fixes
		43 FIR does not work on i.MX31
		231 DSPhl28525. Unable to wake up from State Retention and DSM mode on i.MX31
		233 TLSbo79609. i.MX31 ADS DVFS Demo test fails and causes system crash
		TLSbo79608 i.MX31 ADS Low Level Power management driver test fails on Stop
		307 and Doze
		344 MX31ADS unable to resume with keypad
		422 Second MMC/SD slot (SDHC2) is disabled in the code
		467 MPGEG4 decoder causes kernel build failure
		468 tvout test sets the wrong bpp
		496 mxc-gpio: invalid GPIO 224
		546 modules aren't autoloaded
		555 NAND partition table is static
		556 Nandboot JFFS2 error on multiple reboot