Freescale Lite5200B and Media5200 Board Support Package#

This BSP supports the Freescale Lite5200B and Media5200 boards.

Releases#

QNX Neutrino 6.4.0#

Date	Version	Prerequisites	Installation Notes	Release Notes	License(s)	Support	Provider	Download	Source Tag
Latest	trunk	QNX Momentics 6.4.0	6.4.0 Generic Notes	here	QDL and Apache II	Experimental	QNX	Project Downloads	Coming Soon!
2009-11-20	1.0.0	QNX Momentics 6.4.0	6.4.0 Generic Notes	here	QDL and Apache II	QNX	QNX	Project Downloads	Coming Soon!

QNX Neutrino 6.3.0#

Date	Version	Prerequisites	Installation Notes	Release Notes	License(s)	Support	Provider	Download	Source Tag
2007-09-12	1.0.4	QNX Momentics 6.3.x SP2 or later	6.3.2 Generic Notes	here	MEULA and Apache II	QNX	QNX	QNX Download Center	none

Features#

Feature	Planned Availability	Format	Notes
Audio (Media5200 Only)	Completed	SRC	Realtek ALC658
DMA	Completed	BIN	Bestcomm5200 utility and library
EIDE	Completed	BIN	On-board ATA controller
Ethernet	Completed	SRC	On-board 10/100 BaseT Ethernet controller
I2C	Completed	SRC	mpc5200 I2C manager
Flash	Completed	SRC	AMD Flash: 32 MB (Lite5200b), 64 MB (Media5200)
PCI	Completed	SRC	On-board PCI controller
Serial	Completed	SRC	On-board UART: serpsc UART
SPI	Completed	SRC	On-board SPI controller
Startup	Completed	SRC	.
USB Host	Completed	BIN	OHCI

Some of these drivers are commented out in the default buildfile. To use the drivers in the target hardware, you'll need to uncomment them in your buildfile, rebuild the image, and load the image into the board. The default buildfile starts the serial driver for the Media5200 board, if you have a Lite board, you'll need to comment the Media5200 serial driver section and uncomment the Lite serial driver section.

QNX Neutrino 6.4.0 Change History#

1.0.0#

- Created from QNX Neutrino 6.4.0 BSP for Freescale MPC5200 Lite 1.0.4
- Built using the latest 6.4.0 toolchain

QNX Neutrino 6.3.0 Change History#

1.0.4#

- The ROM monitor flashed in the Media5200 board currently initializes the extended BAT registers. The startup code clears them now so the OS doesn't become unstable when booting from the ROM monitor.
- The default buildfile provided with this BSP starts the flash driver and the touchscreen driver properly in the script section and it does now include the devf-mgt5200 driver or the calib utility in the OS image.
- The default buildfile provided with this BSP now contains the full Photon environment. Uncommenting the Photon sections in the buildfile will create a fully functional Photon image for the Media5200 board.
- Hardware flow control works for the PSC serial driver.
- PCI devices behind a PCI-to-PCI bridge can now be enumerated and the PCI-to-PCI bridge can now be configured properly for these PCI devices.
- Flash driver update for misaligned accesses on the Lite5200B or Media5200 boards.
- Flash driver update for probing the hardware properly. It isn't necessary any more to run one instance of the flash driver per flash bank. We've also fixed the documentation accordingly.
- IPL fix for the Lite5200B board. When swapping the two flash banks, their addresses were mirrored instead of swapped.
- Added RTC utility for the Freescale MPC 5200 boards.
- Fixed the use message for the devb-eide-mpc5200 driver.

Search Keywords: 5200, mpc5200, mgt5200, lite, media5200, Freescale, MPC5200, MGT5200, Lite