# Freescale i.MX31 ADS Board Support Package#

This BSP supports the Freescale i.MX31 ADS board.

## Releases#

### QNX Neutrino 6.4.0#

| Date | Version | Prerequisites | Installation Notes | Release Notes | License(s) | Support | Provider | Download | Kernel Benchmark |
|---|---|---|---|---|---|---|---|---|---|
| Latest | trunk | QNX Momentics 6.4.0 | 6.4.0 Generic Notes | here | QDL and Apache II | Experimental | QNX | Project Downloads | http://community.qnx.com/svn/repos/bsp/tags/public/bsp/nto640/freescale_i.mx31/latest |
| _2008-11-07 | 1.0.0 | QNX Momentics 6.4.0 | 6.4.0 Generic Notes | here | QDL and Apache II | QNX | QNX | Project Downloads | Benchmark Downloads |

### QNX Neutrino 6.3.2#

| Date | Version | Prerequisites | Installation Notes | Release Notes | License(s) | Support | Provider | Download |
|---|---|---|---|---|---|---|---|---|
| 2007-12-21 | 1.1.0 | QNX Momentics 6.3.x SP3 or later + AGTDK | 6.3.2 Generic Notes | here | Apache II | Experimental | QNX | Project Downloads |
| 2007-09-12 | 1.0.0 | QNX Momentics 6.3.x SP2 or later + AGTDK + latest Character DDK | 6.3.2 Generic Notes | here | MEULA and Apache II | QNX | QNX | QNX Download Center |

## Features#

| Feature | Planned Availability | Format | Notes |
|---|---|---|---|
| Audio | Completed | SRC | MC13783 stereo DAC |
| DMA | Completed | SRC | Includes utility, library also included in BIN form |

| | | | |
|---|---|---|---|
| EIDE/SATA | Completed | BIN | On-board ATA controller |
| Ethernet | Completed | SRC | 10 BaseT Ethernet controller: Crystal LAN CS8900A |
| Graphics / Video Acceleration | Completed | BIN | On-board graphics controller driver for Graphic Framework (GF) |
| I2C | Completed | SRC | MX31 I2C manager. Master library also included in BIN form |
| NAND | Completed | SRC | Saumsung NAND Flash: 128 MB NAND flash (K9K1G08U) |
| NOR | Completed | SRC | Spansion Flash: 32 MB burst flash (71WS256N) |
| Serial | Completed | SRC | On-board UART: MX31 UART |
| SPI | Completed | SRC | MX31 SPI master controller |
| Startup | Completed | SRC | . |
| USB Host | Completed | BIN | host1/host2 (EHCI) |

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.

## QNX Neutrino 6.4 Change History#

### Trunk#

- Same as QNX Neutrino 6.4.0 BSP for Freescale i.MX31 ADS 1.0.0

### 1.0.0#

- Created from QNX Neutrino 6.3.2 BSP for Freescale i.MX31 ADS 1.1.0
- Built using the latest 6.4.0 toolchain
- Support for ARM11 enabled procnto
- Level 2 cache support
- Support for the 800x480 Sharp panel to be integrated with latest acceleration improvements
- Various graphics fixes
- The serial driver supports the software flow control

## QNX Neutrino 6.3.2 Change History#

### 1.1.0#

- Support for DMA

### 1.0.0#

- Initial release under Apache II

- Includes:
  - Audio
  - Graphics
  - I2C
  - Serial
  - SPI
  - Startup
  - USB Host

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*Search Keywords: mx, i.mx, .mx31, ads, Freescale, MX, i.MX, .MX31, ADS*