

# Freescal MPC5121e ADS Board Support Package#

This BSP supports the Freescale MPC5121e ADS board.

## Releases#

### QNX Neutrino 6.4.0#

| Date              | Version | Prerequisites       | Installation Notes                  | Release Notes        | License(s)        | Support      | Provider | Download                          | Source Tag         | Kernel Benchmark                    |
|-------------------|---------|---------------------|-------------------------------------|----------------------|-------------------|--------------|----------|-----------------------------------|--------------------|-------------------------------------|
| <b>Latest</b>     | trunk   | QNX Momentics 6.4.0 | <a href="#">6.4.0 Generic Notes</a> | <a href="#">here</a> | QDL and Apache II | Experimental | QNX      | <a href="#">Project Downloads</a> | <b>Coming Soon</b> |                                     |
| <b>2008-11-07</b> | 7.0.0   | QNX Momentics 6.4.0 | <a href="#">6.4.0 Generic Notes</a> | <a href="#">here</a> | Apache II         | QNX          | QNX      | <a href="#">Project Downloads</a> | <b>Coming Soon</b> | <a href="#">Benchmark Downloads</a> |

### QNX Neutrino 6.3.2#

| Date              | Version          | Prerequisites                    | Installation Notes                  | Release Notes        | License(s)        | Support      | Provider | Download                            | Source Tag |
|-------------------|------------------|----------------------------------|-------------------------------------|----------------------|-------------------|--------------|----------|-------------------------------------|------------|
| <b>2008-12-19</b> | 1.1.0 (20081219) | QNX Momentics 6.3.x SP3 or later | <a href="#">6.3.2 Generic Notes</a> | included in archive  | QDL and Apache II | QNX          | QNX      | <a href="#">Project Downloads</a>   | none       |
| 2008-10-08        | 1.0.0            | QNX Momentics 6.3.x SP3 or later | <a href="#">6.3.2 Generic Notes</a> | <a href="#">here</a> | QDL and Apache II | QNX          | QNX      | <a href="#">QNX Download Center</a> | none       |
| 2008-09-17        | 1.0.0 (20080917) | QNX Momentics 6.3.x SP3 or later | <a href="#">6.3.2 Generic Notes</a> | included in archive  | QDL and Apache II | Experimental | QNX      | <a href="#">Project Downloads</a>   | none       |
| 2008-06-30        | 1.0.0 (20080630) | QNX Momentics 6.3.x SP3 or later | <a href="#">6.3.2 Generic Notes</a> | included in archive  | QDL and Apache II | Experimental | QNX      | <a href="#">Project Downloads</a>   | none       |

## Features#

| Feature  | Planned Availability | Format | Notes |
|----------|----------------------|--------|-------|
| Audio    | Completed            | SRC    | AC97  |
| CAN      | Completed            | SRC    | .     |
| DMA      | Completed            | SRC    | .     |
| EIDE     | Completed            | BIN    | .     |
| Ethernet | Completed            | SRC    | .     |
| Graphics | Completed            | BIN    | .     |

|         |                                 |     |   |
|---------|---------------------------------|-----|---|
| I2C     | Completed                       | SRC | . |
| IPL     | Oct/08                          | SRC | . |
| NAND    | Completed                       | SRC | . |
| NOR     | Completed                       | SRC | . |
| EIDE    | Completed (PIO) Oct/08<br>(DMA) | SRC | . |
| PCI     | Completed                       | SRC | . |
| PCIE    | Completed                       | SRC | . |
| Serial  | Completed                       | SRC | . |
| SPI     | Completed                       | SRC | . |
| Startup | Completed                       | SRC | . |
| RTC     | Completed                       | SRC | . |
| USB     | Completed                       | BIN | . |

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 6.4.0 Change History#

### Trunk#

- Same as QNX Neutrino 6.4.0 BSP for Freescale MPC 5121e ADS 1.0.0

### 1.0.0#

- Created from QNX Neutrino 6.3.2 BSP for Freescale MPC 5121e ADS 1.0.0

## QNX Neutrino 6.3.2 Change History#

### 1.0.0#

- Bug fixes
  - Fixes major issues with USB

### 1.0.0 (20080917)#

- Release for silicon rev.2, board rev.3.5@rev.4
- Bug fixes
- Updated for silicon rev.2 - not compatible with previous silicon revisions
  - Audio
  - EIDE (PIO mode)
  - Graphics
  - I2S
  - USB (EHCI)

### 1.0.0 (20080630)#

- Initial release under Apache II and QDL for silicon rev.1, board rev.2c @ rev.3.2
- Includes:
  - Audio

- CAN driver
- DMA
- I2C driver
- I2S audio driver
- NAND flash driver
- Network driver
- NOR flash driver
- PCI driver
- RTC utility
- Serial driver
- SPI driver
- Startup

### 1.1.0 <#>

- ◦ IPL (It is designed for ads5121e rev 4.0 board and may does not work well on the board early than rev4.0)
- EIDE
- USB Device Controller
- Notes:
  - To recover the U-boot by using the back up FLASH, Please install the jumper on P4. When this jumper is installed powering the ADS512101 will launch U-Boot in a protected back up FLASH and reinstall U-Boot to main FLASH.
  - There is a problem with the IDE interface related to the board layout and work is in progress to get a workaround.