

# TI OMAP 4430 Panda / 4460 Panda ES Board Support Package#

This BSP supports the TI OMAP 4430 Panda Board and the TI OMAP 4460 Panda ES board.

## Releases#

### New! QNX Neutrino 6.6.0 BSP#

| Date       | Version | Prerequisites | User Guide           | Release Notes        | <a href="#">License(s)</a> | <a href="#">Support</a> | Provider | BSP                  |
|------------|---------|---------------|----------------------|----------------------|----------------------------|-------------------------|----------|----------------------|
| 2014-02-28 | 6.6.0   | QNX SDP 6.6.0 | <a href="#">here</a> | <a href="#">here</a> | Apache II                  | QNX                     | QNX      | <a href="#">here</a> |

### QNX Neutrino 6.5.0 Service Pack 1#

| Date       | Version   | Prerequisites           | Installation Notes                  | Release Notes        | <a href="#">License(s)</a> | <a href="#">Support</a> | Provider | Download                          |
|------------|-----------|-------------------------|-------------------------------------|----------------------|----------------------------|-------------------------|----------|-----------------------------------|
| 2013-09-16 | 6.5.0 SP1 | QNX Momentics 6.5.0 SP1 | <a href="#">6.5.0 Generic Notes</a> | <a href="#">here</a> | Apache II                  | Experimental            | QNX      | <a href="#">Project Downloads</a> |

## Bootloader modules#

Click on the links to download [MLO](#) and [U-BOOT.BIN](#)

## WIFI Driver#

Click [here](#) to download the WIFI driver, associated files, and instructions.

## Features#

| Feature       | Planned Availability | Format | Notes           |
|---------------|----------------------|--------|-----------------|
| IPL           | Completed            | SRC    |                 |
| Startup       | Completed            | SRC    |                 |
| Serial        | Completed            | SRC    |                 |
| I2C           | Completed            | SRC    |                 |
| SPI           | Completed            | SRC    |                 |
| USB EHCI Host | Completed            | BIN    |                 |
| USB OTG Host  | Completed            | BIN    | USB-OTG as Host |
| Ethernet      | Completed            | BIN    |                 |
| RTC           | Completed            | SRC    |                 |
| PMIC          | Completed            | SRC    |                 |
| SD/MMC        | Completed            | SRC    |                 |
| Audio         | Completed            | SRC    |                 |
| wifi          | Completed            | BIN    |                 |

|            |            |     |                                                         |  |
|------------|------------|-----|---------------------------------------------------------|--|
| TI SYSlink | contact TI |     |                                                         |  |
| Graphics   | Completed  | SRC | for QNX 6.5.0 SP1<br>graphics support,<br>contact sales |  |

## QNX Neutrino 6.6.0 Change History<#>

February 28, 2014<#>

- Initial post

## QNX Neutrino 6.5.0 Change History<#>

Release 1.00<#>

- Initial post

October 7, 2011<#>

Milestone 2 (added IPL and audio, updated release notes)

December 8, 2011<#>

Milestone 3:

- IPL updated to properly support full 1 gigabyte DRAM
- support for native Cortex A8 cached page table entries
- added serial HCI support
- fixed issue with IPL not importing / building correctly in IDE
- fixed issue with board hangs when io-pkt is slayed
- updated release notes
- removed custom binaries for io-pkt and libc from BSP (stock QNX 6.5.0 versions can now be used)

January 9, 2012<#>

Milestone 3 updated to support Pandaboard Rev. A4 (with Silicon rev. ES2.3): new MLO, U-Boot.bin, and updates to IPL and Startup code to recognize this silicon version

February 7, 2012<#>

Fix for audio playback issue with new MLO for rev. A4

March 8, 2012<#>

updated to allow booting with Pandaboard-ES (with OMAP4460 [SoC](#)) - more Pandaboard-ES support to be added in next release

## **April 13, 2012#**

Additional enhancements to better support Pandaboard-ES (OMAP4460), including fixes for core clock detection/operation

## **June 13, 2012#**

Updates for better thermal management, clocking fixes, and fixes for boot issues with some earlier Panda board revisions

## **July 3, 2012#**

additional fix for stability issue with some rev. A3 boards, unified BSP version now supports both QNX 6.5.0 and QNX 6.5.0 SP1 (6.5.0 SP1 GA kernel binaries are included with BSP, for pre-SP1 environments)

## **November 7, 2012#**

- the IPL source code has been updated for faster loading of the QNX IFS image from SD card
- the BSP build file has been updated for better automatic network detection/connection when booting
- the BSP is now SP1 only; a QNX Momentics 6.5.0 SP1 host environment **must** be used with this BSP
- the U-Boot binary included with the BSP is pre-configured to search for the file 'ifs-omap4430-panda.bin' on the SD card; the user no longer needs to manually configure u-boot
- the BSP release notes have been updated to clarify the usage of the IPL instead of U-Boot, plus several other release note fixes and updates
- the IPL no longer prompts the user to press a key to load the IFS, and instead boots automatically

## **August 6, 2013#**

- various stability updates and boot time optimizations

## **September 16, 2013#**

- fixed issue with IDE import not working correctly

## **December 19, 2013#**

- add support for Panda rev. A6
- add 'omap4-dieid' utility to generate a unique MAC address for each board, based on silicon die ID