# x86 BIOS/APIC Board Support Package#

The purpose of this BSP is to provide source code for the most common x86 drivers necessary to boot QNX Neutrino on x86 boards that have a BIOS, for both legacy and APIC based systems.

## Features#

| Feature | Availability | Format |
|---|---|---|
| startup-bios | Completed | SRC |
| startup-apic | Completed | SRC |
| pci-bios | Completed | SRC |
| pci-bios-v2 | Completed | SRC |
| Intel HD Audio | Completed | SRC |
| Serial | Completed | SRC |
| Ethernet | Completed | SRC |

### New! QNX Neutrino 6.6.0 BSP#

| Date | Version | Prerequisites | User Guide | Release Notes | License(s) | Support | Provider | BSP |
|---|---|---|---|---|---|---|---|---|
| 2016-11-03 | 6.6.0 | QNX SDP 6.6.0 | here | here | Apache II | QNX | QNX | here |

Click **here** to download the VMware runtime ISO image, which can be used for initializing a boot device using native QNX tools.

## QNX Neutrino 6.6.0 Change History#

### November 3, 2016#

- replaced stand-alone libnetdrvr PSP with 'PATCHES' archive containing all necessary patches
- added latest net-core PSP to PATCHES archive for core networking components
- updated libnetdrvr PSP within PATCHES archive to match net-core PSP version

### May 17, 2016#

- added support for Intel Skylake processors
- posted libnetdrvr patch (must be applied to BSP /prebuilt directory, prior to building BSP) for proper e1000 network driver operation

### August 19, 2015#

- includes latest versions (with source code) of:
  - startup-apic
  - startup-bios
  - libstartup (x86)
  - devc-ser8250
  - deva-ctrl-intel_hda.so
  - deva-mixer-hda.so
  - pci-bios
  - pci-bios-v2
  - devnp-e1000.so

- build file updates support remote login (ftp, telnet, etc.)
- startup-apic / pci-bios-v2 are now used by default

**October 17, 2014#**

- additional updates for Intel HD audio support

**June 26, 2014#**

- various updates, added Intel HD Audio driver

**February 28, 2014#**

- Initial post

## Releases#

**Updated! QNX Neutrino 6.5.0 SP1 BSP#**

| Date | Version | Prerequisites | User Guide | Release Notes | License(s) | Support | Provider | BSP |
|---|---|---|---|---|---|---|---|---|
| 2017-01-12 | 6.5.0 SP1 | QNX Momentics 6.5.0 SP1 | Here | here | Apache II | QNX | QNX | Here |

## QNX Neutrino 6.5.0 Change History#

**January 12, 2017#**

- incorporated latest PSPs for kernel/libc, networking, USB, and audio into the BSP

**April 27, 2016#**

- Now supports the ADI RCC: Atom C2000 (Rangeley Communications Collateral) Platform

**January 20, 2015#**

- Updated default address for IFS in DRAM, to avoid issues with de-compression of larger IFS images

**November 26, 2015#**

- includes latest versions (with source code) of:
  - startup-apic
  - startup-bios
  - libstartup (x86)
  - devc-ser8250
  - deva-ctrl-intel_hda.so
  - deva-mixer-hda.so
  - pci-bios
  - pci-bios-v2
  - devnp-e1000.so

- build file updates support remote login (ftp, telnet, etc.)
- startup-apic / pci-bios-v2 are now used by default

**October 17, 2014#**

- additional updates for Intel HD audio support

**June 23, 3014#**

- Added support for Intel HDMI audio codec

**April 03, 2014#**

- PCI server option (-T) added to enable work-around for Intel E6xx Errata B150 (Clearing PCIe Root Port's BME Bit With Pending Upstream Traffic Will Cause Internal Bus to Hang (ref. Intel document 324209-016))

**March 17, 2014#**

- PCI server fixes for properly displaying number of allocated MSI interrupts

**October 30, 2013#**

- includes latest updates to startup library, PCI/PCIe server code

**November 26, 2012#**

- Updated to 6.5.0 SP1, now contains e1000 network driver source

**November 2011#**

- original version

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*Search Keywords: 86, x86, bios, X86, BIOS*