

# 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 | Prerequisite  | User Guide           | Release Notes        | License(s) | Support | Provider | BSP                  |
|------------|---------|---------------|----------------------|----------------------|------------|---------|----------|----------------------|
| 2016-11-03 | 6.6.0   | QNX SDP 6.6.0 | <a href="#">here</a> | <a href="#">here</a> | Apache II  | QNX     | QNX      | <a href="#">here</a> |

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 | <a href="#">Here</a> | <a href="#">here</a> | Apache II  | QNX     | QNX      | <a href="#">Here</a> |

## 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, 2014#**

- 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