# Freescale i.MX6Q Sabre Board for Smart Devices - Board Support Package#

This BSP supports the Freescale i.MX6Q Sabre Board for Smart Devices.

## Releases#

### Updated! QNX Neutrino 6.6.0 BSP#

| Date | Version | Prerequisites | User Guide | Release Notes | License(s) | Support | Provider | BSP | Latest Version |
|---|---|---|---|---|---|---|---|---|---|
| 2016-10-25 | 6.6.0 | QNX SDP 6.6.0 | here | here | Apache II | QNX | QNX | here | here |

## New PCIe Server Framework (experimental, pre-release version)#

Click **here** to download the new PCie Server for QNX SDP 6.6

## TI Wilink 8 Wifi Support For 6.6.0#

The TI Wilink 8 chipset can be used with the Sabre Smart Devices board via the WL18xxCOM82SDMMC adapter board from TI. Click **here** to download the Wilink8 driver and documents which describe how to verify Wifi on the Sabre Smart Devices Board. Note that Sabre Smart Devices hardware mods and the latest validated 6.6.0 Sabre-Smart BSP (build #313) are required to use the Wifi drivers posted here.

## u-boot#

The Sabre Smart BSP supports both the IPL and u-boot boot loaders. The latest u-boot binary can be obtained from Freescale. Alternatively a prebuilt binary can be downloaded here.

## QNX SDP 6.6.0 Change History#

### October 25, 2016#

- Update to address sdmmc driver issue

### September 30, 2016#

- Posted latest experimental version of BSP (snapshot of current source code base), added Patches archive for net-core and libnetdrvr updates

### February 9, 2016#

- Posted latest experimental version of BSP (snapshot of current source code base)

**April 9, 2015#**

- Posted BSP and Wilink 8 drivers corresponding to QNX Wireless Framework 1.0 Release

**January 27, 2015#**

- updated io-usb command line in build file, BSP now includes devu-ehci-mx28.so instead of devu-ehci-mx31.so

**January 16, 2015#**

- Added TI Wilink8 Wifi support

**June 19, 2014#**

- fixed an MSI interrupt issue

**April 25, 2014#**

- Initial pre-release version posted

**Updated! QNX Neutrino 6.5.0 SP1#**

| Date | Version | Prerequisites | Installation Notes | User Guide | License(s) | Provider | Download |
|---|---|---|---|---|---|---|---|
| 2017-05-04 | 6.5.0 SP1 | QNX Momentics 6.5.0 SP1 | 6.5.0 Generic Notes | here | QDL and Apache II | QNX | Project Downloads |

## DVFS Manager#

Click **here** to download the DVFS Manager and Client for armle-v7 SoCs - Note: updated kernel/libc patch required for DVFS support, get it here )

## Features#

| Feature | Planned Availability | Format | Notes |
|---|---|---|---|
| IPL | Completed | SRC | |
| Startup | Completed | SRC | |
| Serial | Completed | SRC | |
| DMA library | Completed | SRC | |
| Ethernet | Completed | SRC | |
| SDMMC | Completed | SRC | |
| SPI NOR flash | Completed | SRC | NOTE: SPI NOR flash is populated on build options MCIMX6Q-SDP and MCIMX6DL-SDP, but not on MCIMX6Q-SDB |
| SATA | Completed | BIN | |
| I2C | Completed | SRC | |
| WDT | Completed | SRC | |
| USB | Completed | BIN | |

| | | | |
|---|---|---|---|
| Audio | Completed | SRC | |
| Touch | Completed | SRC | |
| Graphics | Completed | | Screen Graphics available separately; contact your sales rep. for additional info |

## QNX Neutrino 6.5.0 SP1 Change History#

### May 4th, 2017#

- posted latest version of BSP that corresponds with the QNX Screen for 6.5.0 SP1 Update 2

### December 16, 2015#

- posted latest QNX-built version of BSP

### Release 1.4.0#

- Fix for HDMI output

### Release 1.3.0#

- Screen drivers are packaged separately - December 18, 2012

### Release 1.2.0#

- Updated Screen (see note above) and Input drivers and fixed a PCIe driver issue - December 05, 2012

### Release 1.1.0#

- Repaired issue relating to loading BSP into IDE - October 11, 2012

### Release 1.0.0#

- i.MX6x Sabre Smart BSP - Initial post - September 17, 2012

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*Search Keywords: mx, i.mx, .mx61, .mx6Q Smart Devices, Smart, Freescale, MX, i.MX, .MX61, .MX6x, .MX6Q*