



QNX 7.0

Nitrogen6x BSP

Release Notes v1.0

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1 Release contents

This release contains the QNX 7.0 BSP as well as this documentation:

- *doc*: Documentation related to this release.
- *images*: Binary images of QNX IFS and IPL as well as *U-Boot* boot script.
- *prebuilt*: Pre-built libraries needed by the BSP.
- *src*: Nitrogen6x QNX BSP source.

Note that this release relies on QNX's release for the *NXP i.MX6x SABRE Smart Device* platform. It is therefore suggested to read this latter [User's Guide](#) to obtain more information.

2 Changelog

Version	Date	Comments
1.0	2017-04-20	Initial Release

3 Supported Hardware

This release primarily supports the following platforms:

- [Nitrogen6X](#)
- [Nitrogen6_SOM](#)

Then other platforms can be supported with a few modifications:

- [BD-SL-i.MX6 \(Sabre-Lite\)](#)
 - Need to un-comment `#define SABRELITE` in:
 - * `src/hardware/startup/boards/imx6x/nitrogen/board.h`
 - Note that the `BSP_boundary-imx6q-nitrogen_bdsl_700_xxx.zip` archive already contains the above modifications.
- [Nitrogen6_SOMv2](#)
 - Need to un-comment `#define NITROGEN6_SOM2` in:
 - * `src/hardware/ipl/boards/mx6q-nitrogen/ipl_mx6x.h`
 - * `src/hardware/startup/boards/imx6x/nitrogen/board.h`
 - Need to un-comment `#define AR8035` in:
 - * `src/hardware/startup/boards/imx6x/nitrogen/board.h`
 - Need to un-comment the eMMC lines in:
 - * `src/hardware/startup/boards/imx6x/nitrogen/build`
 - Note that the `BSP_boundary-imx6q-nitrogen_som2_700_xxx.zip` archive already contains the above modifications.

This BSP also supports different amount of RAM, just need to modify `MX6X_SDRAM_SIZE` it in the following files:

- `src/hardware/ipl/boards/mx6q-nitrogen/ipl_mx6x.h`
- `src/hardware/startup/boards/imx6x/nitrogen/board.h`
 - 1024 for 1GB variant
 - 2048 for 2GB variant
 - 3840 for 4GB variant (SOMv2 only)

4 Available Features

- *Audio*
- *Bootloader*: Either QNX IPL or U-Boot.
- *CAN*
- *DMA*
- *Ethernet*: Both Micrel and Atheros PHY are supported.
- *Graphics*: several options available:
 - *HDMI* displays.
 - *LVDS* [Hannstar 10"](#) 1024x768 display.
 - *LVDS* [Hannstar 7"](#) 1280x800 display.
 - *LVDS* [Tianma 7"](#) 1280x800 display.
 - *LVDS* [Hantronix 7"](#) 1024x600 display.
 - *LCD* [Okaya 7"](#) 800x480 display.
- *I2C*
- *SATA*
- *SD*: eMMC supported on *Nitrogen6_SOMv2*.
- *Serial*
- *SPI NOR*
- *SPI*
- *Touchscreen*: Both *eGalax* and *ft5x06* are supported.
- *USB*
- *WDT*

5 Known Issues

None.

6 Support

In case you need support, please send an e-mail to support@boundarydevices.com.