

# NXP LPCOpen LPC11xx Release Notes

LPCOpen LPC11xx version release history and known issues

## LPCOpen LPC11xx Release Notes

The version history and known issue lists on this page are for v2.xx releases of LPCOpen only.

Some issues are known at the time of the versioned package release. Issues found after the release can be found on the LPCOpen bug tracker pages.



## LPCOpen v2.17 release (Released: 02/20/2015): LPC112X support

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### Changes

- Added support for LPC112X Chips
- Added support for LPC1125 NXP LPCXpresso board

### Known issues

- None

## LPCOpen v2.11 release (Released: 03/31/2014): LPC11E6X release only

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The v2.11 release adds support for the LPCXpresso LPC11E6X devices and LPCXpresso LPC11U68 boards. LPC11E6x devices has the same configuration as LPC11U6x devices, except for the USB not present in LPC11E6x.

### Changes

- None - initial release.

### Known issues

- Several definitions in the SYSCON driver are yet to be correctly defined. These include BOD levels and several wakeup related bits. These will be fixed in a later revision of the software.
- UART ROM API examples for UARTs 1-4 (UARTN) should use the return value from `uart_init()` to set the `LPC_SYSCON->UARTFRGMULT` register instead of `LPC_SYSCON->FRGCLKDIV`

## LPCOpen v2.06 release (Released: 01/20/2014): LPC11U6X release only

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The v2.06 release adds support for the LPCXpresso LPC11U6X devices and the Manley LPC11U68 and LPCXpresso LPC11U68 boards.

### Changes

- None - initial release.

### Known issues

- PIO0\_3 pin mapped to USB\_VBUS function by `board_sysinit.c`
- Several definitions in the SYSCON driver are yet to be correctly defined. These include BOD levels and several wakeup related bits. These will be fixed in a later revision of the software.
- UART ROM API examples for UARTs 1-4 (UARTN) should use the return value from `uart_init()` to set the `LPC_SYSCON->UARTFRGMULT` register instead of `LPC_SYSCON->FRGCLKDIV`

## LPCOpen v2.03 release (Released: 11/22/2013): LPC11U37 release only

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The v2.03 release adds support for the LPCXpresso LPC11U37 board.

### Changes

- None - initial release.

### Known issues

- The LPC11xx documentation package does not include this board yet and has not been updated.

## LPCOpen v2.00a release (Released: 09/13/2013)

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The v2.00a update adds updated LPC11xx support and the initial driver API and example documentation releases for the LPC8xx and the LPC11xx.

### Changes

- Major changes have been made to the LPC11xx package and structure that are similar or the same as the LPC8xx changes. See the LPC8xx v2.00 changes (except those specific to the LPC8xx) for a full list of these similar changes.
- Initial release of USB D library and examples - The USB D library provides a USB API that is the same as the USB ROM API, but works with a static library instead. This allows examples that would normally only work with devices that have the USB ROM API to work on devices without the USB ROM API with little or no changes.
  - The Windows USB driver package needed for the USB D library examples (most examples don't need them) is download as a separate package. The Windows USB driver package has a different versioning scheme than LPCOpen and is released on a different cycle.
- LPC8xx only
  - Release of the initial LPC8xx documentation for the driver API and example code
- LPC11xx only changes
  - Added new USB D library support and USB D library examples (provides same API as USB ROM API based devices in library form). Also includes a composite example.
  - New PININT driver, new GPIO group driver, new PMU driver
  - Added additional examples for PININT/GPIoint. Improved some existing examples
  - Added initial support for the LPC1125, new LPC1125 sequenced ADC driver and example
  - Fixed Chip\_TIMER\_ExtMatchControlSet() function per bug tracker issue
  - Standardized API for GPIO drivers with added port and better optimized functions
  - Removed GPIO Chip\_FIO\_\* functions - not applicable to 11xx devices
  - UART driver improvements to help with non-blocking and interrupt support
  - Fixed a potential issue with startup code related to PLL setup while it was powered up
  - ROM API standardization and alignment with other device families
  - Driver cleanup and removal of conditional code not related to the LPC11xx device family
  - Release of the initial LPC11xx documentation for the driver API and example code

## Known issues

- The LPC11xx documentation package shows some drivers sections with no information on the driver API. This is related to how DoxyGen parses the `#ifdef`'s embedded in the code and will be fixed in a future release. Please see the API comments in the header files until this is fixed.

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