Intel® Firmware Support Package (Intel® FSP) for Intel® Atom™ Processor E3800

Release label: BAYTRAIL_FSP_GOLD_002_10-JANUARY-2014

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This package contains the required binary image(s) and collaterals for the Intel® Firmware Support Package (Intel® FSP) for the Intel® Atom™ Processor E3800 Product Family.
This FSP binary has been integrated a Reference Boot Loader and verified on a Bayley Bay Customer Reference Board (CRB) equipped with stepping B3 SoC.

3. INTEGRATION NOTES
Several header and source files are provided in the package to assist with integrating the FSP with the bootloader.

Please consult the Intel® FSP Integration Guide for further information.

When secure boot feature is enabled, integration of the FSP requires additional steps in addition to the steps documented in the integration guide.

4. SOC FEATURES
- Upto 4 CPU Cores
- Upto 2.2 GHz CPU Frequency
- HDMI, DP/eDP, VGA Display
- 8 GB Max Addressable Memory @ 1066/1333 MT/s
- If only 1 DIMM is used, channel 0 must be used.
- Both memory channels must be populated with DIMMs of same configuration.
- PCI Express
- SATA
- USB 3.0
- Serial Peripheral Bus Controllers

5. SUPPORTED FEATURES
- Atom E3800 Bx steppings
- MCU update
- Memory Detection and Initialization
  - Fast Boot support
- MTRR Initialization on all CPU threads
- PCI Express initialization
- Internal devices initialization
- Configuration Options through Intel BCT
- Rebase to a different base address through Intel BCT
- Secure Boot
- S3
- PCI mode and ACPI Mode for the LPSS devices
- USB 3.0 support

6. FSP Configuration
When integrating with a bootloader The FSP should be placed at the same base address that it is configured to.

The default base address for the FSP is 0xFFFFC000. The base address for the FSP can be configured to a different address using the Intel BCT.
The FSP also provides a set of configuration options for initializing the SOC and can be customized through the Intel BCT.

The Intel BCT is available at http://www.intel.com/fsp

The configuration options are split across two regions - a set of options are in the signed region and a set of options are in the unsigned region enabling field update of these options without having to re-sign the whole image when secure boot feature is enabled.

7. LIMITATIONS

8. KNOWN ISSUES

9. CHANGE LOG

Release BAYTRAIL_FSP_GOLD_002_10-JANUARY-2014:
- Gold 002 Release

Release BAYTRAIL_FSP_GOLD_001_11-OCTOBER-2013:
- Gold 001 Release