



Intel[®] Atom[™] Processor E3800 Product Family/Intel[®] Celeron[®] Processor N2807/N2930/J1900 SPI Driver

Release Notes

May 2014

Intel Confidential



By using this document, in addition to any agreements you have with Intel, you accept the terms set forth below.

You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

A "Mission Critical Application" is any application in which failure of the Intel Product could result, directly or indirectly, in personal injury or death. SHOULD YOU PURCHASE OR USE INTEL'S PRODUCTS FOR ANY SUCH MISSION CRITICAL APPLICATION, YOU SHALL INDEMNIFY AND HOLD INTEL AND ITS SUBSIDIARIES, SUBCONTRACTORS AND AFFILIATES, AND THE DIRECTORS, OFFICERS, AND EMPLOYEES OF EACH, HARMLESS AGAINST ALL CLAIMS COSTS, DAMAGES, AND EXPENSES AND REASONABLE ATTORNEYS' FEES ARISING OUT OF, DIRECTLY OR INDIRECTLY, ANY CLAIM OF PRODUCT LIABILITY, PERSONAL INJURY, OR DEATH ARISING IN ANY WAY OUT OF SUCH MISSION CRITICAL APPLICATION, WHETHER OR NOT INTEL OR ITS SUBCONTRACTOR WAS NEGLIGENT IN THE DESIGN, MANUFACTURE, OR WARNING OF THE INTEL PRODUCT OR ANY OF ITS PARTS.

Intel may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined". Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The information here is subject to change without notice. Do not finalize a design with this information.

The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order.

Copies of documents which have an order number and are referenced in this document, or other Intel literature, may be obtained by calling 1-800-548-4725, or go to: <http://www.intel.com/design/literature.htm>

Intel, Intel Atom, Celeron, Pentium, and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

*Other names and brands may be claimed as the property of others.

Copyright © 2014, Intel Corporation. All rights reserved.



Contents

1	Driver Information	5
2	System Requirements	6
3	Enabled Features	7
4	Disabled Features	8
5	Fixed Issues or New Features	9
6	Known Issues	10
7	Installation Guide	11



§



1 Driver Information

This is the main SPI driver (32-bit and 64-bit) for the Intel® Atom™ Processor E3800 Product Family (formerly known as Bay Trail-I)/Intel® Celeron® Processor N2807/N2930/J1900 (formerly known as Bay Trail-M/D) platform for Microsoft Windows* 7, WES7, and Windows* Embedded POSReady 7.

- Driver name
 - `iaosp.sys`
 - Intel® Atom™/Celeron®/Pentium® Processor SPI Controller** in device manager list
- Version
 - 1.1.5.1021
- Release Data
 - 3/10/2014
- List of files in the driver package
 - Driver binaries
 - `iaiospi.inf`
 - `iaiospi.sys`
 - `iaiospi.cat`
 - Driver interface header file
 - `SPIPublic.h`
 - Driver documents
 - `BYT-I_Win7_IODriver_Programmer_Guide.docx`
 - `ISG_BYT-I_SPI_Driver_Release_Note.docx`

§



2 System Requirements

- Supported Platforms
 - Bay Trail-I Fab3 Rev3 (SKU: B3)
 - Baker Sport Fab B (SKU: B3)
 - Windows* 7 Ultimate 64-bit SP1 (7601)
 - Windows* 7 Ultimate 32-bit SP1 (7601)
 - Windows* Embedded Standard 64-bit SP1 (7601)
 - Windows* Embedded Standard 32-bit SP1 (7601)
 - Windows* Embedded POSReady 7 64-bit
 - Windows* Embedded POSReady 7 32-bit
- Development Environment
 - Windows* 7 64-bit SP1 (7601)
 - Microsoft* Visual Studio Professional 2012 Version 11.0.50727.1 RTMREL
 - MSBuild 4.0.30319.17929
 - Windows* Driver Kit 8.0.0
- Dependency
 - Not applicable
- Constraint
 - Not applicable

§



3 *Enabled Features*

- Supports SPI modes 0,1,2,3
- Supports transfer rate at the minimum rate of 100 kbps and at the maximum rate of 15 Mbps
- Supports polling of IO data transfer (Read/Write)
- DMA data transfer

§



4 *Disabled Features*

Not applicable

§



5 *Fixed Issues or New Features*

Not applicable

§



6 *Known Issues*

Occasionally, one bit is wrong in SPI.

§



7 *Installation Guide*

- Execute Intel Processor Win7* IO Drivers 64Bit.msi to install the 64-bit driver.
- Execute Intel Processor Win7* IO Drivers 32Bit.msi to install the 32-bit driver.
- Uninstall the driver from **Control Panel\All Control Panel Items\Programs and Features**, or uninstall the driver by selecting **MSI installer** again.



§