



# Intel® USB 3.0 eXtensible Host Controller Driver

Release Notes (3.0.0.12)

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*For Unified driver*

*March 2014*

*Revision 0.86*

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## *Revision History*

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Revision Number	Description	Revision Date
0.7	Initial Release.	September 2013
0.8	Alpha Release	October 2013
0.85	Alpha2 Release	December 2013
0.86	Beta Release	March 2014

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# 1 Introduction

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## 1.1 Scope of Document

This document provides release information about the Intel® USB 3.0 eXtensible Host Controller Driver. It covers Release Kit summary, Important Notes, Resolved Issues and Known Issues. This document is intended for OEMs and ODMs that are validating the Intel® USB 3.0 eXtensible Host Controller Driver on their Broadwell PCH-LP based platform.

## 1.2 System Requirements

The Intel® USB 3.0 eXtensible Host Controller Driver contains support for the following Intel Chipsets:

- 4<sup>th</sup> Generation Intel® Core™ Processor U-Series Platform I/O
- Intel® 8 Series/C220 series Chipset Family
- Broadwell PCH-LP Platform

The following Operating Systems are supported:

**Intel® 8 Series Chipset Family**  
**4<sup>th</sup> Generation Intel® Core™ Processor Family**  
**Intel® 9 Series Chipset Family**  
**BayTrail M/D Platform:**

- Windows\* 7 Operating System (both 32-bit and 64-bit versions).

**Intel® C220 series chipset family:**

- Windows\* 7 Operating System (both 32-bit and 64-bit versions).
- Windows\* Server 2008 R2 Operating System.
- Windows\* Small Business Server 2008 Operating System.

**Note:** The Intel® USB 3.0 eXtensible Host Controller Driver is not supported on Windows\* XP and Windows Vista\*. For these operating systems, ensure your BIOS settings have the xHCI Mode set to "Auto" or "Smart Auto". This will reconfigure the USB 3.0 ports to function as USB 2.0 ports using the native Windows\* EHCI driver. For more information, see the Wildcat Point-LP Platform Controller Hub (PCH) BIOS Specification document.

The Intel® USB 3.0 eXtensible Host Controller Driver Installer and Intel® USB 3.0 Monitor support the following languages:

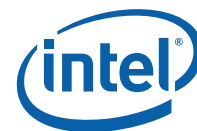
- Arabic (International)
- Chinese (Simplified)
- Chinese (Traditional)
- Czech



- Danish
- German
- Greek
- English (United States)
- Spanish
- Finnish
- French (International)
- Hebrew
- Hungarian
- Italian
- Japanese
- Korean
- Dutch
- Norwegian
- Polish
- Portuguese (Brazil)
- Portuguese (Portugal)
- Russian
- Slovak
- Slovenian
- Swedish
- Thai
- Turkish

## 1.3 Acronyms and Terminology

Term	Description
BSOD	Blue Screen of Death (Stop Error)
CRB	Customer Reference Board
EHCI	Enhanced Host Controller Interface
FS	Full-Speed
HID	Human Interface Device (ex: keyboard or mouse)
HS	High-Speed
IBP	Intel Business Portal ( <a href="https://businessportal.intel.com">https://businessportal.intel.com</a> )
LS	Low-Speed
PCH	Platform Control Hub



Term	Description
RMH	Rate Matching Hub
SS	Super-Speed
USB	Universal Serial Bus
xHCI	eXtensible Host Controller Interface
WPP	Windows* software trace Pre-Processor

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## 2 Release Kit Summary

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### 2.1 Release Kit Details

**Kit Name:** Intel(R) USB 3.0 eXtensible Host Controller Driver

**Version:** 3.0.0.12

### 2.2 Kit Contents

The contents of this release kit include:

- Intel® USB 3.0 eXtensible Host Controller Driver Installer

The Intel® USB 3.0 eXtensible Host Controller Driver Installer “Setup.exe” will install the following drivers and application on the system:

- Intel® USB 3.0 eXtensible Host Controller Driver
- Intel® USB 3.0 Root Hub Driver
- Intel® USB 3.0 Host Controller Switch Driver
- Intel® USB 3.0 Monitor

- USB 3.0 Debug Scripts

The “Debug\_Scripts” folder provides the scripts to capture USB 3.0 WPP logs for issue debug. For more information, see the readme.txt file located in the same folder.

- Intel® USB 3.0 eXtensible Host Controller Driver – Release Notes
- Intel® USB 3.0 eXtensible Host Controller Driver – Bring Up Guide
- Intel Software License Agreement

**Note:** It's recommended that USB3.0 driver should only be installed using the setup.exe. Proper device functionality cannot be ensured if INF installation is used.

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## 3 *Important Notes*

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### 3.1 USB 3.0 Collaterals

Please see the document "Intel(R) USB 3.0 eXtensible Host Controller Driver - Bring Up Guide" for information on driver installation and usage. This document can be found in the Intel(R) USB 3.0 eXtensible Host Controller Driver release kit.

Another useful document to reference is the "Intel(R) USB 3.0 eXtensible Host Controller Driver - Customer Validation and Debug Guide". This document is available on CDI. Please contact your Intel FAE for access.

### 3.2 Platform Best Known Configuration

Please refer to "Client Base Platform Best Known Configuration for Broadwell Platform" from Intel Business Portal (IBP) for platform configuration setup that aligns to this milestone releases.

**Note:** There is no changes between this release and the previous release kit # 58273. The new release meets the Beta criteria.

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## 4 Closed Issues

Issue #	Description	Resolution
N/A	Added support for Broadwell PCH-LP B0 Stepping	Resolved in Release Rev: 3.0.0.12
4635104	BSOD 0x9F may occurs during reboot test with WLAN/BT device connected to xHCI controller	Resolved in Release Rev: 3.0.0.12
2164688	BSOD 0x9F may occurs during system Sleep & PnP on Win7 with WLAN/BT device connected to xHCI controller	Resolved in Release Rev: 3.0.0.12
3709786	Improve BSOD 0xE8086002 check in the release driver	Resolved in Release Rev: 3.0.0.12
2164685	Bluetooth module (WiFi/BT combo) connected to the xHCI controller may show up with yellow bang after resuming from S4 stress test cycle.	Resolved in Release Rev: 3.0.0.12
3709829	BSOD 0xE6 may occurs during S3 stress testing with driver verifier enabled and Bluetooth module (WiFi/BT combo) connected to the xHCI controller.	Resolved in Release Rev: 3.0.0.12
3709981	BSOD 0x9F may occurs during warm reboot stress testing with Bluetooth module (WiFi/BT combo) connected to the xHCI controller.	Resolved in Release Rev: 3.0.0.12
4802017	After an overcurrent event, USB3.0 device connected behind USB3.0 HUB will fail to enumerate if the USB3.0 device re-connected again on the same port.	Resolved in Release Rev: 3.0.0.12
3709824	BSOD 0xD1 may occurs during burn-in test	Resolved in Release Rev: 3.0.0.8
3709917	Updated driver w/a for issue 3707101 - USB3.0 monitor fails (video hang) when connected to USB3.0 port	Resolved in Release Rev: 3.0.0.8
4043513	System will auto wake from Sx state if USB keyboard is reconnected while system is in the Sx state.	Resolved in Release Rev: 3.0.0.8
3709806	Self-powered USB3.0 HDD may not enumerate correctly if the HDD is reconnected to a different USB port when the system is in S4.	Resolved in Release Rev: 3.0.0.8



# 5 Known Issues

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Issue #	Description
	N/A

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