

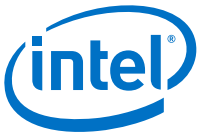
Intel® Embedded Media and Graphics Driver v36.15.0 (32-bit) & v37.15.0 (64-bit) for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2807/N2930/J1900 Windows* Release

Specification Update

August 2014

Notice: The Intel® Embedded Media and Graphics Drivers 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.

Document Number: 541908-004US



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Contents

Revision History 4

Introduction 5

Purpose/Scope/Audience 5

Conventions and Terminology 6

Summary Tables of Current Product Issue Activity 7

Errata 8

Tables

1 Affected Documents, Related Documents, and Reference Information 6

2 Conventions and Terminology 6

3 Summary Tables Legend 7

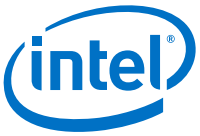
4 Errata for Intel® EMGD v36.15.0 (32-bit) & 37.15.0 (64-bit) for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2807/N2930/J1900 8

5 Resolved Issues 10

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Revision History

Date	Revision	Description
August 2014	004	Intel® Embedded Media and Graphics Driver v36.15.0 (32-bit) & v37.15.0 (64-bit) for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2807/2930/J1900 Windows* Release, Build 1091
March 2014	003	Intel® Embedded Media and Graphics Driver for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2920/J1900 Version 36.15.0.1073 (32-bit) & 37.15.0.1073 (64-bit) release
January 2014	002	Intel® Embedded Media and Graphics Driver for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2920/J1900 Version 36.15.0.1064 (32-bit) & 37.15.0.1064 (64-bit) release
December 2013	001	Initial release for the Intel® Embedded Media and Graphics Driver for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2920/J1900 Version 36.15.0 (32-bit) & 37.15.0 (64-bit)



Introduction

Intel® Embedded Media and Graphics Driver (Intel® EMGD) is a graphics driver for the Windows* 7 operating system environment designed to meet the requirements of embedded applications. The drivers run on the following Embedded Intel® Architecture (eIA) chipsets:

- Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2807/N2930/J1900

Intel® EMGD is designed to work with fixed-function systems, such as In-vehicle Infotainment (IVI) devices, Point-of-Sale (POS) devices, ATMs, gaming devices, etc. It can be configured to work with various hardware and software systems.

The Intel Embedded Graphics Driver consists of both the Intel® EMGD graphics driver and firmware component. These two components are configurable and work together to provide a wide range of features.

Please refer to the *Intel® Embedded Media and Graphics Driver v36.15.0 (32-bit) & v37.15.0 (64-bit) for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2920/J1900 Windows* Release User Guide* and Readme.txt in the software package for a detailed description of the supported features and display devices.

Purpose / Scope / Audience

This document is a compilation of Errata. It is intended for those who need to work with the graphics subsystem. This includes, but is not limited to: platform designers, system BIOS developers, system integrators, original equipment manufacturers (OEMs), system control application developers, as well as end users.

This document may also contain information that was not previously published.

This document provides information on open errata in all supported Intel® EMGD packages for version 36.15.0 (32-bit) & 37.15.0 (64-bit) of the Intel® EMGD product. It includes information on the following packages:

- Windows*7 32-bit (and derivatives)
- Windows*7 64-bit (and derivatives)
- VBIOS

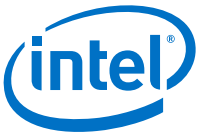
Table 1. Affected Documents, Related Documents, and Reference Information

Title	Number
Intel® Embedded Media and Graphics Driver v36.15.0 (32-bit) & v37.15.0 (64-bit) for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2807/N2930/J1900 Windows Release User Guide*	541234
Intel® System Controller Hub (Intel® SCH)	319537
Display Panel Debugging with the Intel Graphics Memory Controller Hub	305964
Intel® Embedded Media and Graphics Driver for Intel® Atom™ Processor E3800 Product Family/Intel® Celeron® Processor N2807/N2930/J1900 Technical Product Specification (TPS)	TBD
Framebuffer Overlay Blending Configuration and Proof of Concept with Intel® EMGD White Paper	324707

Conventions and Terminology

Table 2. Conventions and Terminology

Term	Definition
Errata (plural) Erratum (singular)	Errata are design defects or errors. These may cause the Intel® Embedded Media and Graphics Driver' behavior to deviate from published specifications. Hardware and software designed to be used with any given release must assume that all errata documented for that release are present on all devices.



Summary Tables of Current Product Issue Activity

Table 4 shows the Errata that apply to the Intel® EMGD product. Intel may fix some of the Errata in a future release of the software as noted in Table 3. Table 4 uses the codes listed in Table 3.

Table 3. Summary Tables Legend

Status Indicator	Column	Definition
X	Driver Version	Indicates that an erratum e**X**ists
Plan Fix	Status	This erratum may be fixed in a future release.
Fixed	Status	This erratum has been previously fixed.
No Fix	Status	There are no plans to fix this erratum.
TBD	Status	This erratum still under investigation. Status to be determined.
A change bar to the left of a table row indicates an item that is either new or modified from the previous version of this Specification Update.		

Table 4. Errata for Intel® EMGD v36.15.0 (32-bit) & 37.15.0 (64-bit) for Intel® Atom™ Processor E3800 Product Family / Intel® Celeron® Processor N2807/N2930/J1900

ID	Impacted Platform	Package	Errata	Status
206255	Atom E3800/Celeron N2920/J1900	Windows 7	Noise in video using Motion Comp Deinterlacing on HD streams.	TBD
206257	Atom E3800/Celeron N2920/J1900	Windows 7	Display ID has not been detected by the driver.	TBD
206516	Atom E3800/Celeron N2807/N2930/ J1900	Windows 7	Disconnecting then reconnecting a DVI-D display at runtime may sometimes cause BDOD crash in the driver in rare circumstances.	TBD

Errata

1. Noise in video using Motion Comp Deinterlacing on HD streams.

Reference #: 206255
Driver: Graphics
Platform: Atom E3800/Celeron N2920/J1900
Package: Windows 7
Resolution: This issue is under investigation and there is no planned workaround at this time.
Status: TBD

2. Display ID has not been detected by the driver.

Reference #: 206257
Driver: Graphics
Platform: Atom E3800/Celeron N2920/J1900
Package: Windows 7
Resolution: This issue is under investigation and there is no planned workaround at this time.
Status: TBD

3. Disconnecting then reconnecting a DVI-D display at runtime may sometimes cause BDOD crash in the driver in rare circumstances.

Reference #: 206516
Driver: Graphics
Platform: Atom E3800/Celeron N2807/N2930/J1900
Package: Windows 7
Workaround This Issue will occur if AUDIO is disabled in the BIOS.

1. Do not disable the audio hardware in the BIOS.
2. Do not hotplug the DVD-I displays if audio is disabled - power off the system before plugging in a DVD-I display.

Status: TBD

Issues Closed in Version 36.15.0 (32-bit) & 37.15.0 (64-bit)

Issues that have been either resolved or for some other reason are no longer considered open in the current software version are included here.

Table 5. Resolved Issues

ID	Impacted Platform	Package	Errata	Status
206057	Atom E3800/Celeron N2920/J1900	Windows 7	GLSL failures	Fixed
206258	Atom E3800/Celeron N2920/J1900	Windows 7	GLSL failures	Fixed
206236	Atom E3800/Celeron N2920/J1900	Windows 7	Changing gamma value for one color does not disable changing gamma for all colors at once.	Fixed
206252	Atom E3800/Celeron N2920/J1900	Windows 7	NLAS settings are not being applied to full screen media surfaces.	Fixed
206302	Atom E3800/Celeron N2920/J1900	Windows 7	DXGI Presentation Testing - FSPresentMS (WoW64) Fails when eDP is not Primary	Fixed
206317	Atom E3800/Celeron N2920/J1900	Windows 7	Maximum Mode supported on Legacy Monitors does not work	Fixed
206332	Atom E3800/Celeron N2920/J1900	Windows 7	Not possible to change values of Vertical Crop Horizontal Stretch Factor and Uniform Scale Region using registry keys	Fixed
206462	Atom E3800/Celeron N2920/J1900	Windows 7	HW Encoding not Functioning on J1900 Platform	Fixed
206472	Atom E3800/Celeron N2920/J1900	Windows 7	Graphics Driver Crashed on OpenGL 2.1 API with D0 Stepping	Fixed
206465	Atom E3800/Celeron N2920/J1900	Windows 7	Graphics Driver Crashes on DirectX Runtime Compatibility on D0 Stepping	Fixed
206474	Atom E3800/Celeron N2920/J1900	Windows 7	Power Plan Changes not Updated in CUI on D0 Stepping	Fixed

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