



Intel® Dynamic Platform and Thermal Framework (DPTF), Client Version 7.10

7.10.0.2208 Production Version Release for Future Intel® Pentium® processor or Future Intel® Celeron® Processor N- Series based Platform (Formerly BayTrail-M Platform)

Release Notes

October 2013

Introduction



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Revision History

Package Definition	Intel® Dynamic Platform and Thermal Framework (DPTF) Driver Revision	Release Date
7.2 Beta	7.2.0.2201	July, 2013
7.10 Production Version for Windows*8 32 bits	7.10.0.2206	August, 2013
7.10 Production Version	7.10.0.2206 (driver build number remains the same)	August, 2013
7.10 Production Version	7.10.0.2206 (driver build number remains the same)	September, 2013
7.10 Beta for Windows*8.1	7.10.0.2207	September, 2013
7.10 Production Candidate for Windows* 8.1	7.10.0.2208	September, 2013
7.10 Production Version for Windows* 8.1	7.10.0.2208	October, 2013



1 Introduction

1.1 Supported Operating Systems

- Microsoft Windows* 8.1 x64 Edition
- Microsoft Windows* 8 x32 Edition
- Microsoft Windows* 8 x64 Edition

Intel's internal Validation team has conducted full validation on Windows* 8.1 64 bit. Basic Acceptance Tests (BAT) was performed on Windows* 8 32/64 bits.

1.2 Supported Hardware

- Future Intel® Pentium® processor or Future Intel® Celeron® Processor N-Series based Platform (Formerly Bay Trail-M Platform) with ValleyView processors B1 and B2 stepping samples.

Table 1. Future Intel® Pentium® processor or Future Intel® Celeron® Processor N-Series based Platform (Formerly Bay Trail-M Platform) SoC SKU Table

SoC (N* Series)	Processor Number	DPPM
Intel® Pentium® Processors	N3510	YES
	N2910	YES
Intel® Celeron® Processors	N2810	YES
	N2805	YES



Note: Intel® DPTF 7.10 driver only supports Future Intel® Pentium® processor or Future Intel® Celeron® Processor N- Series based Platform (Formerly BayTrail-M Platform) Platforms. DPTF 7.10 does not support Future Intel® Pentium® processor or Future Intel® Celeron® Processor J- Series based Platform (Formerly BayTrail D Platform) or Core platforms.

1.3 Supported Platform

Intel® DPTF Client 7.0/7.1 is for supported Core™ Platforms.

Please use DPTF 7.10 driver for Essential Platform.

Table 2. Platform Support

DPTF Client Driver Version	Core™ Platform (HSW)	Essential Platform
7.0	YES	-
7.1	YES	-
7.10 (formerly 7.2)	-	YES

1.4 Supported BIOS

- BIOS version v60.40 or newer for Intel® Future Intel® Pentium® processor or Future Intel® Celeron® Processor N- Series based Platform (Formerly Bay Trail-M Platform) with Bayley Bay RVP testing.

1.5 Supported KSC

- KSC version 3.08 or newer for Future Intel® Pentium® processor or Future Intel® Celeron® Processor N- Series based Platform (Formerly Bay Trail-M Platform) platform (with Bayley Bay RVP).



1.6 Supported OS and Intel® Integrated Graphics Driver [IGD]

1.6.1 Supported Future Intel® Pentium® processor or Future Intel® Celeron® Processor N- Series based Platform (formerly BayTrail-M) Platform OS and Graphics Driver versions

Intel internal validation team used following versions of the Intel Integrated Graphics Driver.

- Windows*8.1 (64 bit): 10.18.10.3299
- Windows* 8 (32 bit): 15.33.0.3259
- Windows* 8 (64 bit): 15.33.1.3266

Note: Intel's validation team validated Windows*8 on the above mentioned Graphics driver version in 7.10.0.2206 (Production Version)

1.7 Supported MBI driver

The MBI driver version is 1.70.304.16315. The same driver can be used with Windows*8 (32 and 64bits) and Windows*8.1 (64 bits).

Please download the MBI driver kit and follow the instructions in the Release Notes to install the driver.

Note: Please check the latest MBI driver release for Windows*8.1 64 bit PV. Please contact your local Intel AE for details.

1.8 Supported Collaterals

Please download the latest available specifications for the below mentioned list of collaterals.

- Bay Trail-M Platform, Intel® Dynamic Platform and Thermal Framework (Intel® DPTF) 7.10 – Thermal Implementation Guide, Doc ID: 528032
- BayTrail-M Platform, Scenario Design Power (SDP) Implementation Guide, Doc ID: 528014
- Intel® Thermal Analysis Tool, Doc ID: 407834
- Thermal Analysis Tool Installation Guide, Doc ID: 355673

Contact your Intel representative for the latest revision.



2 Installation Guide and Driver Behavioral Considerations

2.1 MBI Driver Installation

DPTF 7.10 Driver requires the Future Intel® Pentium® processor or Future Intel® Celeron® Processor N- Series based Platform (Formerly Bay Trail-M Platform) MBI Driver to be already installed on the system. Please refer to section 1.7 for more details. Please ensure this step is successfully completed before moving forward with DPTF 7.10 driver installation.

2.2 DPTF 7.10 Driver Installation Guide (using Intel® Bayley Bay RVP as an example)

Note: Following BIOS setup instructions are applicable for all Future Intel® Pentium® processor or Future Intel® Celeron® Processor N-Series based Platform (Formerly Bay Trail-M Platform) RVP BIOS.

2.2.1 DPPM

1. Reboot the system and enter BIOS setup screen.
2. Go to "Device Manager", then "System Setup"
3. Enter "CPU Configuration", then "CPU Power Management" page
 - Make sure "Intel(R) SpeedStep(tm)" is enabled
4. Enter "Thermal " page
 - Enable "DPTF"
 - Make sure "DPPM" is enabled
 - Enable "DPTF Processor"
 - Make sure the "Brand String" matches the system CPU SKU (this is introduced in BIOS version v51.30)
 - Most everything will be pre-configured, so change settings as desired
 - Disable "CLPM"
 - Disable "Charger Participant"
 - Disable "Display Participant"
 - Disable "Power Participant"
5. Install the graphics driver (please refer to section 1.6.1 for the driver version information)
6. Install the MBI driver (please refer to section 1.7 for the driver version information)
7. Run Setup.exe in Intel® DPTF 7.10 driver package to install DPTF 7.10 drivers.



2.3 DPTF 7.10 Driver Silent Installation Guide

Intel® DPTF driver supports command line flags for the silent installation options.

1. For silent install with auto-reboot:
 - SETUP.EXE -b -s
2. For silent install without auto-reboot:
 - SETUP.EXE -s

Note: The system MUST be rebooted in order for all device updates to take effect.

2.4 Processor SKU Checking Feature

- The Processor SKU checking feature is not enabled in this release.

2.5 Driver Behavioral Considerations

- DPTF Client 7.10.0.2208 uses Polling as the default temperature monitoring method for sensors and processor participant device for thermal trip points.
- DPTF Client 7.10.0.2208 does not support _DEP method. Please refer to the Bay Trail-M DPTF BIOS RC Update Technical Advisory WW32 2013 (document # 535492) for additional information.



3 Tools Support

Table 3. Tools Support

Feature	Description
DPTF Monitor Tool 2.0	A new DPTF Monitor tool is available. It's a vast improvement to the previous version in terms of user experience and functionalities such as real time graphing, record and playback, registry, system information reports. The new DPTF Monitor tool allows modification of trip points at run time. This DPTF Client 7.10 release supports both the DPTF Monitor 1.0 and DPTF 2.0 Tools. However, the DPTF Monitor Tool 2.0 is not compatible with older versions of the driver. Intel highly recommends the use of DPTF Monitor 1.0 for testing out DPTF 7.10.
Thermal Analysis Tool	This tool provides capabilities to analyze an OEM's thermal design. It also provides a plug-in that reports DPTF participant and policy trip points at run time.



4 Issues – Fixed in this Release

Table 4. Fixed Issues

Reference No:	Description
n/a	n/a



5 Issues – Known in this Release

Table 5. Known Issues

Ref ID	Issues	Description
5082363	The interrupts method for temperature trip points crossed not verified	The driver is not receiving the appropriate trip point crossed notification (high to low or low to high). They are missed randomly from BIOS/EC. Refer to Section 2.5 for driver behavioral considerations.

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