



## BIOS Update Release Notes

### PRODUCTS: D53427RKE, DC53427HYE (Standard BIOS)

#### BIOS Version 0050 - RKPPT10H.86A.0050.2018.0321.1337

##### About This Release:

- Date: March 21, 2018
- ME Firmware: 8.1.72.3002
- Memory Reference Code: Based on 1.8.0.00 (1.2.3.00)
- MEBx Code: Based on 8.0.0.0072
- Integrated Graphics:
  - Option ROM: Build 2158 PC 14.34
  - UEFI Driver: Ivy Bridge EFI driver (GOP): 3.0.1023
- AHCI Code: Based on 4.6.3\_AhciSrc\_018
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Visual BIOS: 1.2.15

##### New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00088)

#### BIOS Version 0049 - RKPPT10H.86A.0049.2017.1129.1424

##### About This Release:

- Date: November 29, 2017
- ME Firmware: 8.1.72.3002
- Memory Reference Code: Based on 1.8.0.00 (1.2.3.00)
- MEBx Code: Based on 8.0.0.0072
- Integrated Graphics:
  - Option ROM: Build 2158 PC 14.34
  - UEFI Driver: Ivy Bridge EFI driver (GOP): 3.0.1023
- AHCI Code: Based on 4.6.3\_AhciSrc\_018
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Visual BIOS: 1.2.15

##### New Fixes/Features:

- Fixed an issue where enabling or disabling the USB Ports BIOS option wouldn't work.
- Updated Management Engine Firmware to version: 8.1.72.3002 (Security Advisory-00086).
- Due to a security enhancement, it will not be possible to go to any BIOS earlier than BIOS 0049.

#### BIOS Version 0048 - RKPPT10H.86A.0048.2017.0506.1545

##### About This Release:

- Date: May 6, 2017
- ME Firmware: 8.1.71.3608
- EC Firmware: NA
- Memory Reference Code: Based on 1.8.0.00 (1.2.3.00)

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

- MEBx Code: Based on 8.0.0.0072
- Integrated Graphics
- Option ROM: Build 2158 PC 14.34
- UEFI Driver: Ivy Bridge EFI driver (GOP): 3.0.1023
- SATA RAID Option ROM: NA
- SATA non-RAID Option ROM: NA
- AHCI Code: Based on 4.6.3\_AhciSrc\_018
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Updated Intel® Management Engine firmware to version 8.1.71.3608.
- Fixed issue where a USB device plugged into the front USB 3.0 port would show on the Boot order/Boot menu.

**BIOS Version 0046 - RKPPT10H.86A.0046.2017.0202.2024**

**About This Release:**

- Date: Feb 2, 2017
- ME Firmware: 8.1.57.1556
- Memory Reference Code: Based on 1.8.0.00 (1.2.3.00)
- MEBx Code: Based on 8.0.0.0072
- Integrated Graphics
  - Option ROM: Build 2158 PC 14.34
  - UEFI Driver: Ivy Bridge EFI driver (GOP): 3.0.1023
- AHCI Code: Based on 4.6.3\_AhciSrc\_018
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Security Enhancements.

**BIOS Version 0045 - RKPPT10H.86A.0045.2016.1206.1444**

**About This Release:**

- Date: December, 6 2016
- ME Firmware: 8.1.57.1556
- Memory Reference Code: Based on 1.8.0.00 (1.2.3.00)
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Ivy Bridge EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Updated the UEFI Network Stack.

**BIOS Version 0044 - RKPPT10H.86A.0044.2016.1027.1929**

**About This Release:**

- Date: October, 27 2016
- ME Firmware: 8.1.57.1556
- Memory Reference Code: Based on 1.8.0.00 (1.2.3.00)
- Integrated Graphics Option ROM: Build 2158 PC 14.34

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

- LAN Option ROM: v1404 PXE 2.1 Build 091
- Ivy Bridge EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Fixed an issue where the NUC can't wake up from S3 by pressing the power button in Linux.
- Improved the G3 Power button recovery feature by disabling the keyboard and power button during flash/recovery process.
- Security Enhancements

**BIOS Version 0043 - RKPPT10H.86A.0043.2015.0910.1015**

**About This Release:**

- Date: September 10, 2015
- ME Firmware: 8.1.57.1556
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Ivy Bridge EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Fixed issue where the BIOS cannot clear TPM.
- Fixed issue where waking from S5 via Real Time Clock Alarm would fail.

**BIOS Version 0042 - RKPPT10H.86A.0042.2015.0625.1859**

**About This Release:**

- Date: June, 16 2015
- ME Firmware: 8.1.57.1556
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Ivy Bridge EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Implemented security enhancement solution.

**BIOS Version 0041 - RKPPT10H.86A.0041.2015.0316.1442**

**About This Release:**

- Date: March 16, 2015
- ME Firmware: 8.1.57.1556
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- Ivy Bridge EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Added BIOS security enhancements.

**BIOS Version 0040 - RKPPT10H.86A.0040.2015.0303.1129**

**About This Release:**

- Date: March 3, 2015
- ME Firmware: 8.1.57.1556
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Fixed issue where TPM password cannot be cleared.
- Fixed issue where the user and supervisor passwords cannot be updated with Intel® Integrator Toolkit.
- Added BIOS item **Suppress Alert Messages At Boot**.
- Added watchdog timer solution.

**BIOS Version 0038 - RKPPT10H.86A.0038.2014.1223.1928**

**About This Release:**

- Date: December 23, 2014
- ME Firmware: 8.1.57.1556
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Updated Intel® ME firmware to version 8.1.57.1556.
- Changed BIOS setup item "Failsafe Watchdog" default to "Enabled".

**BIOS Version 0037 - RKPPT10H.86A.0037.2014.1105.1813**

**About This Release:**

- Date: November 11, 2014
- ME Firmware: 8.1.40.1416
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Fixed issue where booting from the network first does not work.
- Fixed issue where Load BIOS Defaults pop-up confirmation does not display in BIOS Classic mode.
- Updated Failsafe Watchdog option to show in Intel® Integrator Toolkit.
- Updated processor support.
- Added feature to disable Watchdog Timer when pressing Power Button to shut down.
- Updated message when no bootable device is found.

**BIOS Version 0034 - RKPPT10H.86A.0034.2014.0520.1753**

**About This Release:**

- Date: May 20, 2014
- ME Firmware: 8.1.40.1416
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Added support for iSCSI.

**BIOS Version 0033 - RKPPT10H.86A.0033.2014.0519.1931**

**About This Release:**

- Date: May 19, 2014
- ME Firmware: 8.1.40.1416
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Fixed issue where Intel wireless adapters lose connectivity.
- Enhanced the protection of certain UEFI variables as described in Intel Security Advisory INTEL-SA-00038.

**BIOS Version 0032 - RKPPT10H.86A.0032.2014.0303.1322**

**About This Release:**

- Date: March 3, 2014
- ME Firmware: 8.1.40.1416
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Added cold restart to fix Enable TXT function failure.
- Updated message when no bootable device is found.
- Fixed Linux installation issue.

**BIOS Version 0030 - RKPPT10H.86A.0030.2013.1129.1128**

**About This Release:**

- Date: November 29, 2013
- ME Firmware: 8.1.40.1416
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Fixed issue where intermittent boot hang occurs when certain USB camera is connected.
- Updated processor microcode.
- Changed default setting for Failsafe Watchdog to Disabled.
- Updated the display of turbo ratio on the Performance page in BIOS setup.
- Added support for Ubuntu\* boot solutions.

**BIOS Version 0028 - RKPPT10H.86A.0028.2013.1016.1429**

**About This Release:**

- Date: October 16, 2013
- ME Firmware: 8.1.40.1416
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Updated Intel® ME firmware to version 8.1.40.1416.
- Changed DVMT default value to 32MB.
- Updated Intel boot logo.
- Updated Secure Boot module.

**BIOS Version 0023 - RKPPT10H.86A.0023.2013.0529.1711**

**About This Release:**

- Date: May 29, 2013
- ME Firmware: 8.1.30.1350
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091
- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Fixed issue with hotkey <9> for Intel® Integrator Toolkit.
- Fixed Max range of IGD current Limit (Amps) in Performance > Graphics to a value of 33.
- Added Turbo boost items in BIOS Setup.
- Fixed issue where system hangs during IDER boot when there is no mSATA device.
- Fixed issue where hotkey does not work in SOL display.
- Removed Maximum Non-Turbo Ratio item from BIOS Setup.
- Removed Boot Menu Type item from BIOS Setup Classic mode.

**BIOS Version 0017 - RKPPT10H.86A.0017.2013.0425.1251**

**About This Release:**

- Date: April 25, 2013
- ME Firmware: 8.1.30.1350
- Integrated Graphics Option ROM: Build 2158 PC 14.34
- LAN Option ROM: v1404 PXE 2.1 Build 091

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- EFI driver (GOP): 3.0.1023
- Visual BIOS: 1.2.15

**New Fixes/Features:**

- Initial production BIOS release

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