PRODUCTS: D53427RKE, DC53427HYE (Standard BIOS)

BIOS Version 0053 - RKPPT10H.86A.0053.2018.1115.1741

About This Release:
- Date: November 15, 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: v1404PXE 2.1 Build 091
- Visual BIOS:1.2.15

New Fixes/Features:
- Added BIOS write protection for security enhancement.

Known Errata:
- Due to security enhancements in BIOS version 0053, you can't downgrade to version 0052 or earlier.

BIOS Version 0052 - RKPPT10H.86A.0052.2018.0719.1935

About This Release:
- Date: July 19, 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: v1404PXE 2.1 Build 091
- Visual BIOS:1.2.15

New Fixes/Features:
- Updated CPU Microcode (Security Advisory-00115)
- Updated Help text for **Wake System from S5** option: Note: This timer will not wake the system when Windows Fast Startup (S4 Hibernate) is enabled in Windows.

BIOS Version 0051 - RKPPT10H.86A.0051.2018.0606.2131

About This Release:
- Date: June 6, 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
  o Option ROM: Build 2158 PC 14.34
  o 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 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:
  o Option ROM: Build 2158 PC 14.34
  o 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:
  o Option ROM: Build 2158 PC 14.34
  o 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)
- 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 UEfiNetworkStack.

BIOS Version 0044 - RKPPT10H.86A.0044.2016.1027.1929

About This Release:
- Date: October, 27 2016

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

- 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:
- 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.

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

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

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

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

New Fixes/Features:
- Initial production BIOS release

LEGAL INFORMATION

Information in this document is provided in connection with Intel Products and for the purpose of supporting Intel developed server/desktop boards and systems.

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. Intel Corporation may have patents or pending patent applications, trademarks, copyrights, or other intellectual property rights that relate to the presented subject matter. The furnishing of documents and other materials and information does not provide any license, express or implied, by estoppel or otherwise, to any such patents, trademarks, copyrights, or other intellectual property rights. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel is a trademark of Intel Corporation in the US and other countries.
Copyright (c) 2015 Intel Corporation.

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