



BIOS Update Release Notes

PRODUCTS: CD1C32GK, CD1C64GK, CD1P64GK (Standard BIOS)

BIOS Version 0053 - GKAPLCPX.86A.0053.2019.0814.1148

About This Release:

- Date: August 14, 2019
- ROM Image Checksum: 0xB2F5
- TXE Firmware: 3.1.65.2288
- EC Firmware: 16.38.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09
- Supported Flash Devices:

GigaDevice	GD25LQ128C	16MB
Macronix	MX25U12873F	16MB
Winbond	W25Q128FW	16MB
- Microcode Updates included in .ROM File:
M03506C9_00000038.PDB
- Additional Microcode Updates included only in .BIO File:
M03506C9_00000038.PDB

New Fixes/Features:

- Added Realtek PXE option ROM.
- Updated BIOS code for BIOS recovery with USB flash drive.

BIOS Version 0052 - GKAPLCPX.86A.0052.2019.0718.1628

About This Release:

- Date: July 18, 2019
- ROM Image Checksum: 0x2553
- TXE Firmware: 3.1.65.2288
- EC Firmware: 16.38.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09
- Supported Flash Devices:

GigaDevice	GD25LQ128C	16MB
Macronix	MX25U12873F	16MB
Winbond	W25Q128FW	16MB
- Microcode Updates included in .ROM File:
M03506C9_00000038.PDB
- Additional Microcode Updates included only in .BIO File:

New Fixes/Features:

- Modified BIOS code for security fix.
- Fixed issue where PXE device can't be set in boot priority.

BIOS Version 0051 - GKAPLCPX.86A.0051.2019.0611.1331

About This Release:

- Date: June 11, 2019
- ROM Image Checksum: 0x4279
- TXE Firmware: 3.1.65.2288
- EC Firmware: 16.38.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09
- Supported Flash Devices:

GigaDevice	GD25LQ128C	16MB
Macronix	MX25U12873F	16MB
Winbond	W25Q128FW	16MB
- Microcode Updates included in .ROM File:
M03506C9_00000038.PDB
- Additional Microcode Updates included only in .BIO File:
M03506C9_00000038.PDB

New Fixes/Features:

- Updated TXE firmware to version 3.1.65.2288 for security advisory Intel-SA-00185.
- Updated CPU microcode for security fix.

Known Errata:

- Due to the Intel® TXE firmware update in BIOS version 0051, you can't downgrade to version 0050 or earlier.

BIOS Version 0050 - GKAPLCPX.86A.0050.2019.0223.1819

About This Release:

- Date: February 23, 2019
- TXE Firmware: 3.1.50.2244
- EC Firmware: 16.38.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Updated BIOS code for security fixes.

BIOS Version 0049 - GKAPLCPX.86A.0049.2018.1001.1532

About This Release:

- Date: October 01, 2018
- TXE Firmware: 3.1.50.2244
- EC Firmware: 16.38.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Added support that allows USB 3.0 boot devices to be detected in the boot menu.

BIOS Version 0048 - GKAPLCPX.86A.0048.2018.0828.1135

About This Release:

- Date: August 28, 2018
- TXE Firmware: 3.1.50.2244
- EC Firmware: 16.38.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics:
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- BIOS code improvements for Intel® Integrator Toolkit.

BIOS Version 0047 - GKAPLCPX.86A.0047.2018.0801.1633

About This Release:

- Date: August 1, 2018
- ROM Image Checksum: 0x3C06
- TXE Firmware: 3.1.55.2244
- EC Firmware: 16.38.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Removed/disabled Intel Ready Mode Technology code/items in BIOS for Intel security fix.

BIOS Version 0046 - GKAPLCPX.86A.0046.2018.0725.1043

About This Release:

- Date: July 25, 2018
- TXE Firmware: 3.1.55.2244

- EC Firmware: 16.37.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics:
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00115).
- Updated TXE firmware to version 3.1.55.2244.
- Added "Boot USB Devices First" item in BIOS setup.
- Fixed issue where system can't boot automatically after updating BIOS when Power State is set to "Always Off".
- Fixed issue where system can't wake on WLAN after it has been in the S3 power state 1.5 minutes.
- Updated EC firmware to version 1637.
- Fixed issue where Storage information is displayed wrong in BIOS Setup.

Known Errata:

Can't downgrade BIOS to version 0043 or earlier due to security updates.

BIOS Version 0043 - GKAPLCPX.86A.0043.2018.0516.1624

About This Release:

- Date: May 16, 2018
- TXE Firmware: 3.1.50.2222
- EC Firmware: 16.36.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics:
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Fixed the issue where LAN would disappear after resuming from S3 when using the Compute Card Dock.
- Fixed the issue where the system would boot to the operating system without the HDD user password prompt.
- Security enhancements.

BIOS Version 0042 - GKAPLCPX.86A.0042.2018.0305.1116

About This Release:

- Date: March 05, 2018
- TXE Firmware: 3.1.50.2222
- EC Firmware: 16.36.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Fixed issue where setup only shows information for one SATA interface.
- Implemented hard disk password functionality.
- Updated the EC code.

BIOS Version 0041 - GKAPLCPX.86A.0041.2018.0108.1330

About This Release:

- Date: January 08, 2018
- TXE Firmware: 3.1.50.2222
- EC Firmware: 16.35.00
- Memory Reference Code: Based on 1.2.3
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- AHCI Code: Based on AHCI_12
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00088)
- Fixed issue where the USB 3.0 ports would run at USB 2.0 speeds.
- Fixed issue where the HSIO port information showed incorrectly in the BIOS setup.

BIOS Version 0039 - GKAPLCPX.86A.0039.2017.1211.1631

About This Release:

- Date: December 11, 2017
- TXE Firmware: 3.1.50.2222
- EC Firmware: 16.35.00
- Integrated Graphics
 - Option ROM: 14.34 04/15/2016 08:07:50
 - UEFI Driver: 10.0.1036
- LAN Option ROM: 7.6.09

New Fixes/Features:

- Updated TXE firmware to version 3.1.50.2222 for Security Advisory-00086.
- Updated EC firmware to version A16.35.00.
- Fixed issue with HDMI no display in AGL OS.
- Implemented security updates.
- Added "(Y/N)" confirmation to the warning for clearing HDD password.

Known Errata:

Due to a security enhancement, the BIOS version cannot be downgraded to a version earlier than BIOS 0039.

BIOS Version 0033 - GKAPLCPX.86A.0033.2017.0830.1010

About This Release:

- Date: August 30, 2017
- TXE Firmware: 3.0.13.1144
- EC Firmware: 16.31.00
- Integrated Graphics:

- o Option ROM: 14.34 04/15/2016 08:07:50
- o UEFI Driver: 10.0.1036
- LAN Option ROM: 7.6.09

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, lifesaving, 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) 2017 Intel Corporation.