

BIOS Update Release Notes

PRODUCTS: DZ87KLT-75K (Standard BIOS)

BIOS Version 0459 - KLZ8711D.86A.0459.2018.1101

About This Release:

- Date: November 1, 2018
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Integrated Graphics Option ROM: Build 2179 UEFI Driver: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN
 - Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.2.5 Production Candidate Build
- UEFI revision: 2.3.1

New Fixes/Features:

• Updated CPU Microcode (Security Advisory-00115).

BIOS Version 0458 - KLZ8711D.86A.0458.2018.0329.1136

About This Release:

- Date: March 29, 2018
- ME Firmware: 9.0_1.5M_9.0.20.1447
- Integrated Graphics: Option ROM: Build 2179 UEFI Driver: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN: Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.2.5 Production Candidate Build
- UEFI revision: 2.3.1

New Fixes/Features:

• Updated CPU Microcode (Security Advisory-00088).

BIOS Version 0457 - KLZ8711D.86A.0457.2015.0713.1319

About This Release:

- Date: July 13, 2015
- ROM Image Checksum: 0x59515121
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Memory Reference Code: Based on 1.6.2.0
- Integrated Graphics Option ROM: Build 2179
 - UEFI Driver: 5.0.1034

- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.2.5 Production Candidate Build
- UEFI revision: 2.3.1

New Fixes/Features:

- Implemented security enhancement solution.
- Fixed issue where popup menu does not show devices.

KLZ8711D.86A.0454.2015.0324.1631 Production BIOS

About This Release:

- Date: Mar 24, 2015
- ROM Image Checksum: 0xF330
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Memory Reference Code: Based on 1.6.2.0
- Integrated Graphics Option ROM: Build 2179 UEFI Driver: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.2.5 Production Candidate Build
- UEFI revision: 2.3.1
- Supported Flash Devices: Macronix MX25L6475E 8MB WinBond W25Q64FV 8MB
- Additional Microcode Updates included only in .BIO File: M32306C3_00000017

New Fixes/Features:

1. Based on KL0453.

2. Security enhancement >> AMI-SMM-v1.

BIOS Version 0453 - KLZ8711D.86A.0453.2014.1007.1848

About This Release:

- Date: October 7, 2014
- ME Firmware: 9.0_1.5M_9.0.20.1447
- Integrated Graphics Option ROM: Build 2179 UEFI Driver: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.2.5 Production Candidate Build
- UEFI revision: 2.3.1

This BIOS includes support only for processors launched earlier than April 2014. Refer to http://processormatch.intel.com for processors compatible with your Intel® Desktop Board. This site also lists third party motherboards that support the latest Intel processors.

Note:

BIOS version 0446 added support for Microsoft* Windows* 8.1. After updating to version 0446 or later, you will not be able to downgrade to version 0346 or earlier. The following warning message will display: This BIOS is not allowed to downgrade reversion, but system will do reset in 20 seconds automatically.

New Fixes/Features:

- Implemented security enhancements as described in Technical Advisory #1001888.
- Added "Suppress Alert Messages At Boot" setup item.
- Improved watchdog timer handling in password checking dialog.

BIOS Version 0452 - KLZ8711D.86A.0452.2014.0605.0927

About This Release:

- Date: June 5, 2014
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Integrated Graphics Option ROM: Build 2179 UEFI Driver: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.2.5 Production Candidate Build
- UEFI revision: 2.3.1

This BIOS includes support only for processors launched earlier than April 2014. Refer to http://processormatch.intel.com for processors compatible with your Intel® Desktop Board. This site also lists third party motherboards that support the latest Intel processors.

Note:

BIOS version 0446 added support for Microsoft* Windows* 8.1. After updating to version 0446 or later, you will not be able to downgrade to version 0346 or earlier. The following warning message will display: This BIOS is not allowed to downgrade reversion, but system will do reset in 20 seconds automatically.

New Fixes/Features:

• Enhanced the protection of certain UEFI variables as described in Intel Security Advisory INTEL-SA-00038.

BIOS Version 0451 - KLZ8711D.86A.0451.2014.0501.1134

About This Release:

- Date: May 1, 2014
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Integrated Graphics Option ROM: Build 2179 UEFI Driver: 5.0.1034

- SATA RAID Option ROM: v12.0.0.1783
- LAN
 - Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.2.5 Production Candidate Build
- UEFI revision: 2.3.1

Note:

BIOS version 0446 added support for Microsoft* Windows* 8.1. After updating to version 0446 or later, you will not be able to downgrade to version 0346 or earlier. The following warning message will display: This BIOS is not allowed to downgrade reversion, but system will do reset in 20 seconds automatically.

New Fixes/Features:

- Updated RC to 1.6.2.
- Updated Visual BIOS to version 2.2.5.
- Updated processor support.
- Fixed issue where memory speed is reset from 1600 to 1333 and system will not boot correctly, with a 3-beep memory error.

BIOS Version 0450 - KLZ8711D.86A.0450.2014.0217.1636

About This Release:

- Date: February 17, 2014
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Integrated Graphics Option ROM: Build 2179 UEFI Driver: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.1.5 Production Candidate Build
- UEFI revision: 2.3.1

Note:

BIOS version 0446 added support for Microsoft* Windows* 8.1. After updating to version 0446 or later, you will not be able to downgrade to version 0346 or earlier. The following warning message will display: This BIOS is not allowed to downgrade reversion, but system will do reset in 20 seconds automatically.

New Fixes/Features:

- Updated fan speed control module.
- Fixed issue that prevented booting and installing some operating systems, such as SteamOS*.
- Fixed issue where Hard Disk Drive Password length did not match the specification.
- Fix issue where UEFI operating system fails to install.
- Improved EFI variable protection for Setup variable.
- Fixed issue where computer will not boot with XMP memory.
- Modified TCWL MAX value to 10 for XMP Profiles issue.

BIOS Version 0447 - KLZ8711D.86A.0447.2014.0109.1803

About This Release:

- Date: January 9, 2014
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Integrated Graphics Option ROM: Build 2179 UEFI Driver: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN
 - Option ROM: v1410 PXE 2.1 Build 092 UEFI Driver: 5.1.00
- Visual Bios: 2.1.5 Production Candidate Build

Note:

BIOS version 0446 added support for Microsoft* Windows* 8.1. After updating to version 0446 or later, you will not be able to downgrade to version 0346 or earlier. The following warning message will display: This BIOS is not allowed to downgrade reversion, but system will do reset in 20 seconds automatically.

New Fixes/Features:

- Updated Intel® Visual BIOS to version 2.1.5.
- Updated VBIOS to version 2179.
- Added Hard Disk Pre-Delay setup item.
- Fixed issue where external graphics card shows no video if Legacy Boot is disabled and UEFI is enabled.
- Added Mini-PCIe Slot setup item.
- Added VT-d setup item.
- Improved power button menu function.

BIOS Version 0446 - KLZ8711D.86A.0446.2013.1104.2023

About This Release:

- Date: November 4, 2013
- ME Firmware: 9.0 1.5M 9.0.20.1447
- Integrated Graphics Option ROM: Build 2177
- GOP: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092

Note:

BIOS version 0446 added support for Microsoft* Windows* 8.1. After updating to version 0446 or later, you will not be able to downgrade to version 0346 or earlier. The following warning message will display: This BIOS is not allowed to downgrade reversion, but system will do reset in 20 seconds automatically.

New Fixes/Features:

- Updated flash BIOS warning message.
- Corrected value for Rear Fan2 Under-Speed Threshold.
- Updated Secure Boot module.
- Changed DVMT default setting to 32 MB.
- Modified XHCI and EHCI USB port mapping.
- Fixed issue where Intel® Desktop Utilities value for Fan Sensor 6 (Chassis Outlet Fan) Under-Speed Threshold is 0.

About This Release:

- Date: October 23, 2013
- ME Firmware: 9.0_1.5M_9.0.20.1447
- Integrated Graphics Option ROM: Build 2177
- GOP: 5.0.1034
- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092

New Fixes/Features:

- Updated processor support.
- Updated VBIOS to version 2177.
- Updated EFI driver to version 5.0.1034
- Updated Intel® ME firmware to version 9.0.20.1447.
- Updated RAID OPROM to version 12.0.0.1783.
- Fixed issue where the [F3] DISABLE FAST BOOT prompt does not display and system does a BIOS recovery when selecting F3.
- Fixed issue where system does not halt when password is entered incorrectly three times and Ctrl+Alt+Del still works.
- Fixed issue where if Supervisor Password is installed and Supervisor Password is not required to continue post when Chassis Intrusion is set to log only.
- Fixed SATA speed display in Setup boot order menu.
- Fixed key issues for Config Mode menu.
- Fixed SATA speed display in Setup boot order menu.
- Fixed key issues for Config Mode menu.
- Fixed issue where Power LED still blinks when no video is detected even when set to "NO VIDEO DETECTED ERROR BEEPS".
- Improved VT-d support.
- Changed VT-d support to be dependent on CPU installed.
- Fixed Fast Boot issue where question still can be selected after the User Password or Hard Disk Drive Password is installed.
- Fixed issue where folder names are incorrect in F7 update.
- Updated hard drive password length from "2-8" to "2-19".
- Updated Cooling page Temperatures item.
- Fixed issue where USB3.0 HDD still can be detected even when all USB3.0 ports are set to "No detect".
- Changed SATA port display string on Boot menu.
 - Updated settings if CPU does not support Turbo boost Technology: o "OCA for Processor" and "Maximum Processor Core Ratio" will gray out.
 - o "Intel Turbo Boost Technology" will be set to "disable" and hidden.
 - o "Burst Mode Power Limit", "Burst Mode Power Limit (Watts)", "Sustained Mode Time (Seconds)", "Sustained Mode Power Limit (Watts)" will be hidden.

BIOS Version 0344 - KLZ8711D.86A.0344.2013.0621.1548

About This Release:

- Date: June 21, 2013
- ME Firmware: 9.0 1.5M 9.0.5.1367
- Integrated Graphics Option ROM: Build 2170
- GOP: 5.0.8.1025

- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092

New Fixes/Features:

- Fixed Cooling Assistant bar issue.
- Fixed consumer infrared resource conflict issue.
- Updated Visual BIOS to version 2.0.23
- Fixed issue where custom logo is lost during BIOS Recovery.
- Fixed Boot Block Fault tolerance issue.
- Fixed issue where the ranges of Processor Core Voltage Offset(V), Ring Voltage Offset(V), and Graphics Voltage Offset(V) **are** incorrect.
- Fixed noise issue with HDMI/DP audio when playing music after resuming system from S3.
- Updated Intel® ME firmware to version 9.0.5.1367.
- Fixed standby LED behavior when system resumes from S3.

BIOS Version 0336 - KLZ8711D.86A.0336.2013.0516.1957

About This Release:

- Date: May 16, 2013
- ME Firmware: 9.0.2.1345
- Integrated Graphics Option ROM: Build 2170
- GOP: 5.0.8.1025
- SATA RAID Option ROM: v12.0.0.1783
- LAN Option ROM: v1410 PXE 2.1 Build 092

New Fixes/Features:

• Initial production BIOS release

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