



BIOS Update Release Notes

PRODUCTS: CM8v7CB, CM8v5CB

BIOS Version 0093 - CBWHLMIV.0093.2021.0223.1101

About This Release:

- Date: Feb 23, 2021
- ROM Image Checksum: 0xB9AB
- ME Firmware: 12.0.70.1652
- EC1 Firmware:
 - AB_A: 2.20.0
 - AB_B: 2.20.0
 - AB_C: 2.20.0
 - BB: 2.18.0
 - Test Board: 2.16.0
 - FB: 2.20.0
- EC2 Firmware: 2.15.0
- PMC Firmware: 300.1.20.1030
- Boot Guard ACM: 1.6.0
- Memory Reference Code: Based on 00.07.01.110
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1095
- Intel RST Pre-OS:
 - UEFI Driver: 17.7.0.4404
- Wired LAN Adapter:
 - UEFI Driver:
 - I219: 0.0.29
 - I211: 8.7.10
 - Realtek: 2.048
 - Gbe NVM: 0.4
- AHCI Code: Based on AHCI_19
- Visual BIOS: Intel Text Setup

- Supported Flash Devices:

WINBOND	W25Q256J	32MB
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- Microcode Updates included in .BIN & .CAP Files:

M94806EC_000000DE.pdb

New Fixes/Features:

- Fixed issue with eMMC controller
- Fixed issue with WOL (Wake on Lan) Power On

BIOS Version 0092 - CBWHLMIV.0092.2021.0108.1753

About This Release:

- Date: Jan 08, 2021
- ROM Image Checksum: 0x9BAA
- ME Firmware: 12.0.70.1652

- EC1 Firmware:
 - AB_A: 2.20.0
 - AB_B: 2.20.0
 - AB_C: 2.20.0
 - BB: 2.18.0
 - Test Board: 2.16.0
 - FB: 2.20.0
- EC2 Firmware: 2.15.0
- PMC Firmware: 300.1.20.1030
- Boot Guard ACM: 1.6.0
- Memory Reference Code: Based on 00.07.01.110
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1095
- Intel RST Pre-OS:
 - UEFI Driver: 17.7.0.4404
- Wired LAN Adapter:
 - UEFI Driver:
 - I219: 0.0.29
 - I211: 8.7.10
 - Realtek: 2.048
 - Gbe NVM: 0.4
- AHCI Code: Based on AHCI_19
- Visual BIOS: Intel Text Setup
- Supported Flash Devices:

WINBOND	W25Q256J	32MB
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- Microcode Updates included in .BIN & .CAP Files:

M94806EC_000000DE.pdb

New Fixes/Features:

- Updated NEW NUC Element splash screen logo.
- Updates BIOS code for security fixes.
- Fixed issue with BIOS WMI interface feature.
- Updated ECD to 1.17

BIOS Version 0091 - CBWHLMIV.0091.2020.1127.2106

About This Release:

- Date: Nov 27, 2020
- ROM Image Checksum: 0xD966
- ME Firmware: 12.0.70.1652
- EC1 Firmware:
 - AB_A: 2.20.0
 - AB_B: 2.20.0
 - AB_C: 2.20.0
 - BB: 2.18.0
 - Test Board: 2.16.0
 - FB: 2.20.0
- EC2 Firmware: 2.15.0
- PMC Firmware: 300.1.20.1030
- Boot Guard ACM: 1.6.0
- Memory Reference Code: Based on 00.07.01.110
- MEBx Revision: 12.0.0.0010

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

- Integrated Graphics:
 - UEFI Driver: 9.0.1095
- Intel RST Pre-OS:
 - UEFI Driver: 17.7.0.4404
- Wired LAN Adapter:
 - UEFI Driver:
 - I219: 0.0.29
 - I211: 8.7.10
 - Realtek: 2.048
 - Gbe NVM: 0.4
- AHCI Code: Based on AHCI_19
- Visual BIOS: Intel Text Setup

- Supported Flash Devices:

WINBOND	W25Q256J	32MB
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- Microcode Updates included in .BIN & .CAP Files:

M94806EC_000000DE.pdb

New Fixes/Features:

- Updated BIOS code for security fixes.
- Fixed yellow bang issue with TXT driver.
- Fixed issue with eMMC device.
- Fixed random data loss issue with DMI type 2.
- Fixed infinite loop issue when using H10 device and RST enabled.
- Fixed issue with SMBIOS type 1 or type 3 where info would not clear when CB module was changed to docking which did not save SMBIOS type 1 or type 3 info in EC.
- Upgraded EC firmware to v2.20.0_1.14r3
- Upgraded ME firmware to 12.0.70.1652 v3

BIOS Version 0089 - CBWHLMIV.0089.2020.0907.1829

About This Release:

- Date: Sep 07, 2020
- ROM Image Checksum: 0x4F78
- ME Firmware: 12.0.68.1606
- EC1 Firmware:
 - AB_A: 2.19.0
 - AB_B: 2.19.0
 - AB_C: 2.19.0
 - BB: 2.17.0
 - Test Board: 2.15.0
 - FB: 2.19.0
- EC2 Firmware: 2.14.0
- PD Firmware: 1.6.0
- PMC Firmware: 300.1.20.1030
- Boot Guard ACM: 1.6.0
- Memory Reference Code: Based on 00.07.01.110
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1095
- Intel RST Pre-OS
 - UEFI Driver: 17.7.0.4404

- Wired LAN Adapter:
 - UEFI Driver:
 - I219: 0.0.29
 - I211: 8.7.10
 - Realtek: 2.048
 - Gbe NVM: 0.4
- AHCI Code: Based on AHCI_19
- Visual BIOS: Intel Text Setup
- Supported Flash Devices:

WINBOND	W25Q256J	32MB
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- Microcode Updates included in .BIN & .CAP Files:

M94806EC_000000D6.pdb

New Fixes/Features:

- Fixed issue with Intel AMT message.
- Fixed DMI information error when CM8v7CB, CM8v5CB were plugged into different docking boards.
- Fixed issue with BIOS watchdog counter not clearing.
- Fixed issue where BIOS Self Recovery must be disabled if Failsafe Watchdog is disabled.
- Updated WMI and Element WMI.
- Fixed LAN issue.
- Fixed issue with Extra COM device in device manager when S3 or S4 resumes.
- Fixed WHQL issue.
- Updated EC Firmware version to 2.19.0
- Fixed BIOS code for PCIE10 SCLK setting.
- Added I2C device "HID Descriptor Address" code to support ECD 1.13
- Fixed CMOS register definition.
- Updated USB Dual rule setup item string.
- Updated ME firmware to 12.0.68.1606
- Fixed issue where PWN BTN menu was triggering random failures.
- Fixed issue where ECD profile for SATA driving strength was not set correctly.
- Reviewed modern standby setting.
- Changed TOKE "FLUSH_KEYS_AFTER_READ" to 0
- Fixed system hang issue after loading defaults in BIOS setup menu.
- Fixed SRCCLKREF not set to GPIO mode if set "Always Enabled" in the ECD.
- Fixed issue updating EC Firmware when doing ME Firmware update.
- Fixed timing issue displaying Intel Logo.
- Added dual role support for front USB 3.0 Type A port.
- Fixed issue with USB S4/S5 wake function.
- Fixed issue with incorrect iSetupCfg string.
- Fixed BIOS recovery issue in Optane mode.
- Updated Intel Client Ethernet Connection I219.

Known Errata:

- EC Firmware cannot be updated when doing "F7" update from BIOS version CBV0079 to CBV0089. To overcome this known issue,

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please perform "F7" update twice when upgrading from CBV0079 to CBV0089.

BIOS Version 0079 - CBWHLMIV.0079.2020.0602.1846

About This Release:

- Date: June 02, 2020
- ROM Image Checksum: 0x9B3F
- ME Firmware: 12.0.49.1534
- EC1 Firmware:
 - AB_A: 2.17.0
 - AB_B: 2.17.0
 - AB_C: 2.17.0
 - BB: 2.15.0
 - Test Board: 2.14.0
 - FB: 2.17.0
 - FB with Capture Card: 2.17.0
- EC2 Firmware: 2.13.0
- PMC Firmware: 300.1.20.1025
- Boot Guard ACM: 1.6.0
- Memory Reference Code: Based on 00.07.01.110
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1095
- Intel RST Pre-OS:
 - UEFI Driver: 17.7.0.4404
- Wired LAN Adapter:
 - UEFI Driver:
 - I219: 0.024
 - I211: 8.7.10
 - Realtek: 2.048
 - Gbe NVM: 0.4
- AHCI Code: Based on AHCI_19
- Visual BIOS: Intel Text Setup

- Supported Flash Devices:

WINBOND	W25Q256J	32MB
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- Microcode Updates included in .BIN & .CAP Files:

M94806EC_000000CA.pdb

New Fixes/Features:

- Updated EC2 firmware to version 2.13.0.
- Added support for OA3 payload injection with OEMID/OEM Table ID through iFlashV tool
- Added support for iSetupCfg tool.
- Updated EC1 firmware to version 2.17.0 for CMB1ABA, CMB1ABB and CMB1ABC.
- Updated EC1 firmware to version 2.15.0 for CMA1BB.
- Added the option to show LAN MAC Address, ECD revision in BIOS setup.
- Added Element Configuration Data (ECD) 1.11 support for HIDI2C, USB camera, platform configuration, HSIO driving

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- strength override, USB camera, verb table, UCSI, brightness control, tablet/slate mode notification, FAN and GOP override.
- Added support for persistent display and related warning message.
- Added mobile battery, LID and EC keyboard matrix support
- Removed the option update bios from flash tool or F7 when in battery mode.

BIOS Version 0058 - CBWHLMIV.0058.2020.0107.1859

About This Release:

- Date: January 07, 2020
- ROM Image Checksum: 0x59CA
- ME Firmware: 12.0.49.1534
- EC1 Firmware:
 - AB_A: 2.8.0
 - AB_B: 2.8.0
 - AB_C: 2.8.0
 - BB: 2.9.0
 - Test Board: 2.8.0
- EC2 Firmware: 2.4.0
- PMC Firmware: 300.1.20.1025
- Boot Guard ACM: 1.6.0
- Memory Reference Code: Based on 00.07.01.110
- MEBx Revision: 12.0.0.0010
- Integrated Graphics:
 - UEFI Driver: 9.0.1095
- Intel RST Pre-OS:
 - UEFI Driver: 17.7.0.4404
- Wired LAN Adapter:
 - UEFI Driver:
 - I219: 0.024
 - I211: 8.7.10
 - Realtek: 2.048
 - Gbe NVM: 0.4
- AHCI Code: Based on AHCI_19
- Visual BIOS: Intel Text Setup
- Supported Flash Devices:

WINBOND	W25Q256J	32MB
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- Microcode Updates included in .BIN & .CAP Files:
M94806EC_000000B8.mcb

New Fixes/Features:

- Initial production BIOS release

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