



BIOS Update Release Notes

PRODUCTS: CM8v7CB, CM8v5CB

BIOS Version 0096 - CBWMLMIV.0096.2021.0818.2002
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About This Release:

- Date: August 18, 2021
- ROM Image Checksum: 0x512D
- ME Firmware: 12.0.81.1753 v4
- EC1 Firmware:
 - AB_A: 2.23.0
 - AB_B: 2.23.0
 - AB_C: 2.23.1
 - BB: 2.21.0
 - Test Board: 2.16.0
 - FB: 2.24.0
- EC2 Firmware: 2.17.0
- 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 AptioV Text Setup
- Supported Flash Devices:

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

M94806EC_000000EA.pdb

New Fixes/Features:

- Fixed issue with Self-Healing functionality.
- Updated IPU 2021.1 CVE-2020-8670.
- Updated Wi-Fi and Bluetooth setup items.
- Added BIOS code to detect carrier board being used and removal of virtual display.
- Added pop-up warning message to user when transition BIOS is required before flashing to current BIOS release.
- Updated AC check code change on battery-supported projects.

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

- Fixed issue with duplicate setup options after running iSetupConfig tool.

BIOS Version 0095 - CBWHLMIV.0095.2021.0623.2324

About This Release:

- Date: June 24, 2021
- ROM Image Checksum: 0xC4F2
- ME Firmware: 12.0.81.1753
- EC1 Firmware:
 - AB_A: 2.23.0
 - AB_B: 2.23.0
 - AB_C: 2.23.1
 - BB: 2.21.0
 - Test Board: 2.16.0
 - FB: 2.24.0
- EC2 Firmware: 2.17.0
- 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 AptioV Text Setup

- Supported Flash Devices:

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

M94806EC_000000EA.pdb

New Fixes/Features:

- Updated eDP related setup items.
- Removed non-supported SMBIOS type from CB/EB.
- Updated ME FW version to 12.0.81.1753 v4.
- Updated EC Firmware v2.23.1.

BIOS Version 0094 - CBWHLMIV.0094.2021.0515.0049

About This Release:

- Date: May 15, 2021
- ROM Image Checksum: 0x48BD
- ME Firmware: 12.0.70.1652
- EC1 Firmware:
 - AB_A: 2.23.0

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

- AB_B: 2.23.0
 - AB_C: 2.23.0
 - BB: 2.21.0
 - Test Board: 2.16.0
 - FB: 2.24.0
- EC2 Firmware: 2.17.0
- 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_000000EA.pdb

New Fixes/Features:

- Support Kernel DMA Protection
- Updated NTFS DXE driver when parsing NTFS file system partition.
- Fixed SMI handler vulnerabilities.
- Updated CPU Microcode to M94806EC_000000EA.pdb
- Enable token "BEEP_ENABLE" to allow sound.
- Fixed issue when installing Optane H10 device.
- Fixed issue with "UUID" where it could not be updated.
- Fixes issue with "BIOS Setup Menu Visibility Control" displayed/hidden behavior.

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

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- Gbe NVM: 0.4
- AHCI Code: Based on AHCI_19
- Visual BIOS: Intel Text Setup
- Supported Flash Devices:
WINBOND W25Q256J 32MB
- 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
- 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
- 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.

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

- 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.

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

- 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, 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

*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: 0.024
 - 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 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

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

- 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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