



OPSD BIOS ENGINEERING

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DATE: January 11th, 2000
FROM: Intel Customer Support-Support Engineering
SUBJECT: Standard BI440ZX BIOS Production Release 09

About This Release

- 4B4IZ0XA.86A.0012.P09.0001111104

Features/Errata Fixed in This Release

P09-0012 [PLEASE UPDATE BOOT BLOCK]

- Removed ACPI Sleep Button Device.
- Fixed BIOS to correct issue seen with HCT 9.5 "ACPI System Test (Win2K)".
- Changed CMOS manufacturing default boot order to comply with manufacturing functional testing.
- Fixed WOL hang with add-in PCI Ethernet adapter.
- Fixed issue where bad CMOS checksum would hang at entering system setup.
- Fixed issue where BIOS function DA92h INT 15h did not return the correct processor Model ID.
- Fixed an issue where the board would go into setup every time mfg. mode was set.
- Fixed issue that prevented the system from going into S1 ACPI state when serial port loop-backs were installed.

P08-0011 [Not Released]

- Fixed issue in which some Ethernet adapters that had support for PXE in their option ROMs would report insufficient base memory during Network Boot.
- Fixed issue where POST would hang with an add-in disk protector card installed.
- Fixed issue where two keystrokes were required to wake the board from ACPI S1 under Windows 2000.
- Fixed issue where a PCI modem would not wake up from Windows 98 APM mode.
- Fixed issue where the next system boot after CMOS was found corrupted, the system would improperly prompt for a password.
- Fixed issue where MFG defaults were being loaded on detection of a bad CMOS checksum.
- Implemented releasing of IRQ12, IRQ14 and IRQ15 if no devices are using these resources.
- Fixed issue where attempting to format LS120 media under DOS would return a format error.
- Fixed issue with the 'After Power Failure, Power ON' setup option that would loose value if power was lost before the memory test completed.
- Added interrupt driven keyboard support for better keyboard response during POST.

P07-0010 [PLEASE UPDATE BOOT BLOCK]

- Fixed an issue where setup could not be entered after a CMOS corruption.

P07-0009 [Not released]

- IFLASH invocation with "/F" switch now works properly.
- Enhanced support for CAS Latency 2 only DIMM modules.
- Fixed issue that caused intermittent recovery failures.
- Fixed 16-bit and 8-bit I/O Recovery Time issues.
- Fixed issue when printing in ECP mode.
- Fixed SMBIOS 2.1 Processor Family entry and SMBIOS 2.1 Entry Log failure.

- Fixed an issue that caused the inactivity timer to wake up the system 4 seconds after it was reset.
- Enabled USWC Write Post During I/O Bridge Access
- Fixed issue with User logo.
- Fixed issue where a PS/2 Mouse behaved erratically when running in Windows 98, ACPI Mode.
- Fixed issue where some systems will hang in Checkpoint 0x2D(dependent on Memory Type Installed) when a Full Screen User Logo is installed.
- Added support that allows more IRQs to be set to reserved in Setup.
- Removed hard coded CMOS map restrictions.
- Fixed issue where the Event Log header was being cleared after clearing the Event Log.
- Fixed an issue where Unattended Start was broken. The system was waiting for a key to be pressed before shutdown (Windows 98*) and the BIOS was letting keys pressed during POST to be read by the OS.
- Added stack size in POST.
- Fixed an issue where the CMOS Defaults were restored when a video adapter was detected after a previous boot did not have a video adapter.
- Fixed timing register entry value.
- Added POST support for Video cards that do not support Video Mode 101.
- Added Primary Video Adapter option in SETUP.
- ESCD resources updated correctly after a Shrinking Option ROMs resources event is detected.
- Fixed NVS Error issue when there is more than 64MB of memory.
- ISA video option ROM strings screen are now being cleared when switching to POST screen.
- Fixed issue that caused iflash to run slowly from a floppy disk.
- Fixed issue with CPU Update utility.
- Added Fix for the OS/2 Warp 4.0: APM Suspend from Start Menu.

P05-0008

- Fixed an issue where some systems may hang at POST code 0x2D when a Full Screen User Logo is installed.

P04-0007

- Fixed an issue where the BIOS screen did not get refreshed correctly, when unattended start was enabled.
- Fixed an issue where the BIOS asked for a password upon boot even if only the supervisor password was set.
- Fixed an issue where only three unique addresses showed up for the serial port A.
- Fixed boot from ATAPI ZIP drive when select "ARMD-HDD" as boot device in Setup
- LPT IRQ default set as IRQ7 when Parallel Port has been selected as "Enabled".
- Fixed issue where WOL will not work with Power loss. [NEED TO UPDATE BOOT BLOCK TO GET THIS FIX]
- Corrected Power button Feature in SETUP.
- Fixed an issue with PCI cards that have an option ROM whose size is not a multiple of 2K.
- Fixed an issue with Video corruption in setup Menu when Custom default was loaded.

P03-0006

- Fixed the issue that some video cards could hang the system.
- Changed the help text in the SETUP boot section.
- Fixed the issue that Wake on LAN didn't work as expected.
- Fixed the issue that Option ROM's might hang when trying to use INT18.
- Fixed the issue that the system wouldn't boot without a video card installed.
- Updated ACPI support for greater OS compatibility.
- Implemented code for WOR, WOL, wakeup from Keyboard/Mouse from ACPI S1 state.

P02-0004

- Added support for front panel button to function as a user request for standby and wakeup from standby.
- Fixed issue where user installed processor support updates were not being saved into flash.
- Hide PIO/UDMA settings when the IDE configuration is set to Auto.
- Modified Boot Menu help text in SETUP.
- Added Help text for Advanced menu and sub-menu.

P01-0003

- Initial Release