



DAT23 BIOS V1.50 Release Check List

Test Purpose : Base on DAT23 BIOS version 1.50 to check basic function no bad than old version and confirm fixed items.

Test Configuration: Please refer to the system configuration below:

System Configuration

Release Date: 2004/04/02

Test System	Compal Model Name → DAT23-3		
CPU Type	Intel Celeron M 1.3GHz	Chipset Software Installation utility	Intel 855PM V5.00.1012
L2 Cache	1MB	VGA Driver	NVIDIA NV31M V44.89
Memory Size	512MB	Audio Driver	ReakTek V5.10.0.5490
Hard Disk (F/W)	Hitachi 60G	Modem Driver	Smart LinkV3.40.06
CD-ROM (F/W)	Toshiba SD-R6112	LAN Driver	Realtek V5.606.811.2003
Internal FDD	N/A	Wireless LAN Driver	Global Sun V1.2.8.7
Panel Type	AU 14"XGA	Touch Pad Driver	Alps V5.3.204.4
Battery info	Panasonic	Bluetooth Driver version	N/A
System BIOS	V1.50	Easy Button Driver	V1.04
Keyboard BIOS	V1.50	FIR Driver	SMC V5.1.2462.0
		SD Driver	V2.0.2003.320
Operation System	WinXP+SP1a(Professional)	PCMCIA Driver	V1.11.01

Test procedure, criteria, result

Please refer to the tables below for testing procedure, criteria and result.

Flash BIOS				
No.	Check Item	Pass	Fail	Remark
1.	Make sure BIOS ROM check sum match BIOS release note. (Check sum: F 0CC)	V		
2.	Check commend for flash BIOS is "FLASHIT ALL.ROM ", please do not add extra parameter except special condition and must remove it in next version BIOS.	V		
3.	Check system will shut down after flash BIOS	V		
4.	Check BIOS version during POST procedure	V		

BIOS Release Note (Solved Issues) Check List					
No.	Issue No.	Check Item	Pass	Fail	Remark
1.		Remove HDD password error info after didn't key in any password	V		
2.		Add celeron M processor support	V		
3.		Add dothan A1/A2 speed step support			
4.		Add dothan A2 stepping u-code			
5.		Add banias celeron B1 stepping u-code			
6.		Fix issue: Ctrl key lock when press ctrl+ del+ alt in BIOS set.			

7.		Implement solution for warm boot system hang issue.	V		
System Function Check List					
No.	Boot Test		Pass	Fail	Remark
Please check system can boot from designated device, no hang up, no too slowly for item 2 -12.					
1.	Check BIOS default Boot sequence is FDD-HDD-CDROM-Network		V		
2.	Cold Boot from USB FDD		V		
3.	Warm Boot from USB FDD (Ctrl+Alt+Del)		V		
4.	Cold Boot from HDD		V		
5.	Warm Boot from HDD		V		
6.	Cold Boot from DVD ROM.		V		
7.	Warm Boot from DVD-ROM.		V		
8.	Cold Boot from Network.		V		
9.	Warm Boot from Network.		V		
10.	Press "Esc" key to pop boot menu for select booting from which device during POST of cold boot/warm boot.		V		
11.	Press "C" key to boot from CD-ROM.		V		
No.	VBIOS SSC function Test		Pass	Fail	Remark
1.	Please get the SSC test utility from \\tpe_sa4\document\SA4 A-Test Plan\Test Tools\SSC utility and it under DOS commend. Please check test result same as below. Spread Spectrum Enabled Spread selected for spread = M P2(PCLK) Spread Down at 1.25%		V		
No.	Power On Test by Manually		Pass	Fail	Remark
Please check system can boot, no hang up and no slowly.					
1.	Press the Power Button to power system on with AC adapter only. (3 times)		V		
2.	Press the Power Button to power system on with Main Battery only. (3 times)		V		
3.	Press the Power Button to power system, then insert USB device when BIOS logo appear. (Please check USB HDD, FDD, mouse)		V		
No.	Operating System/Driver Installation		Pass	Fail	Remark
1.	Install the Operating System by manually, please check system no hang up and no slowly.		V		
2.	Install all drivers without hang or any error . (No "!" or "?" mark in Device management)		V		
No.	Hot Key Function Check		Pass	Fail	Remark
1. Please install Wireless LAN and Bluetooth driver and application for Fn + F4 function check.					
1.	Fn + Esc	Sleep Button	V		
2.	Fn + End	Master Volume On/Off	V		
3.	Fn + F4	Wireless LAN and Bluetooth Switch	V		
4.	Fn + F5	Power on display If without E-Key, switch sequence : LCD only, LCD+CRT, CRT only, (If CRT not be applied, all of CRT items will be ignored.)	V		
5.	Fn + PgDn	Decrease audio volume	V		
6.	Fn + PgUp	Increase audio volume	V		
7.	Fn + ↑	Increase Brightness	V		

8.	Fn + ↓	Decrease Brightness	V		
9.	Fn + F10	Cursor keypad on/off	V		
10.	Fn + F11	Numeric keypad on/off	V		
11.	Fn + F12	Scroll Lock on/off	V		
12.	Press Fn+F5 without monitor connection, the display mode should not do any change.		V		
13.	Resume from Standby/Hibernate, and then check hot keys function work fine.		V		
No.	Drotek Easy Button Function Check			Fail	Remark
1.	Easy Button function check with Drotek Easy Button program installed under OS. (User Define1 button, User Define2 button, User Define3 button, Brightness increase/decrease, Volume increase/decrease.)		V		
2.	Check Easy Button function after resume from standby/Hibernate/Restart/Cold boot. (User Define1 button, User Define2 button, User Define3 button, Brightness increase/decrease , Volume increase/decrease)		V		
No.	Limited user Test		Pass	Fail	Remark
1. Go to Control Panel -> User Accounts. 2. Click "Create a new account". 3. Type a name for the new account and click "next". 4. Choice "Limited" for account type. 5. Click "Create Account". 6. Restart system and login this limited user account.					
1.	Check no any error messages appear.		V		
2.	Check all above hot key function work fine.		V		
No.	Peripheral Device Function Check (Check two times)		Pass	Fail	Remark
1.	Check all storage devices (FDD, USB FDD, HDD, CD/DVD-ROM/CD-RW etc.) are working properly.		V		
2.	Make sure all storage devices (FDD, USB FDD, HDD, CD/DVD-ROM etc.) are working fine after resume from standby/Hibernate/Restart/Cold boot.		V		
3.	Check the USB keyboard and mouse are working properly.		V		
4.	Make sure the USB keyboard and mouse are working fine after resume from standby /Hibernate/Restart/Cold boot.		V		
5.	Check the USB 2.0 HDD (IOGEAR Model: GHE125U) is working properly. (With WinXP SP1)		V		
6.	Make sure the USB 2.0 HDD (IOGEAR Model: GHE125U) is working fine after resume from standby /Hibernate/Restart/Cold boot.		V		
7.	Make sure 1394 eeprom can be read/written from system. (Write a 1394 eeprom into system, and then read for 3 times to check.)		V		
8.	Check the 1394 NIC is working fine.		V		
9.	Make sure the 1394 NIC are working fine after resume from standby /Hibernate/Restart/Cold boot.		V		
10.	Check the 1394 device (MO) is working properly.		V		
11.	Make sure the 1394 Device (MO) is working fine after resume from Standby /Hibernate/Restart/Cold boot.		V		
12.	Check the integrated Modem is working properly.		V		
13.	Make sure the integrated Modem is working fine after resume from Standby/Hibernate /Restart/Cold boot.		V		
14.	Check the on board LAN is working properly.		V		
15.	Make sure the on board LAN card is working fine after resume from Standby/ Hibernate/Restart/Cold boot		V		
16.	Check the integrated Wireless LAN is working properly.		V		
17.	Make sure the integrated Wireless LAN card is working fine after resume from Standby/Hibernate/Restart/Cold boot		V		

18.	Check the LPT port (HP LaserJet 5000) function is working fine. (Without any error message)	V		
19.	Make sure the LPT port (HP LaserJet 5000) is working fine after resume from Standby/Hibernate/Restart/Cold boot. (Without any error message)	V		
20.	Check the FIR function by transfer files between two FIR systems.	V		
21.	Make sure the FIR transfer can work between FIR systems after resume from Standby/Hibernate/Restart/Cold boot.	V		
22.	Checking the SD card is working properly.	V		
23.	Make sure the SD card is working fine after resume from Standby/Hibernate/Restart/Cold boot.	V		
24.	Checking the MS card is working properly.	V		
25.	Make sure the MS card is working fine after resume from Standby/Hibernate/Restart/Cold boot.	V		
26.	Checking the MMC card is working properly.	V		
27	Make sure the MMC card is working fine after resume from Standby/Hibernate/Restart/Cold boot.	V		
28.	Check the integrate Bluetooth module is working properly.	N/A		
29.	Make sure the integrate Bluetooth module is working fine after resume from Standby/Hibernate/Restart/Cold boot.	N/A		
30.	Notices that fan have been turned on when system power on.	V		
No.	ACPI Power Management (Standby, Hibernation/Resume) Check	Pass	Fail	Remark
<p>1. Please check function work, system no hang up and no error message for below items. 2. Please check mouse and keyboard are working after resume. 3. For time out and scheduled task test, please check timing no delay.</p>				
1.	Standby by Power Button (Total 10 times, after Standby for 5 times do cold boot once.)	V		
2.	Standby by close panel for 10 seconds. (Lid switch set to “Stand By “) (Total 10 times, after Standby for 5 times do cold boot once.)	V		
3.	Standby by Start Menu \Shut Down \Standby. (Total 10 times, after Standby for 5 times do cold boot once.)	V		
4.	Standby by timeout (Total 10 times, after Standby for 5 times do cold boot once.)	V		
5.	Hibernate by Power Button (Total 10 times, after Hibernation for 5 times do cold boot once.)	V		
6.	Hibernate by close panel for 10 seconds. (Lid switch set to “Hibernate”) (Total 10 times, after Hibernation for 5 times do cold boot once.)	V		
7.	Hibernate by Start Menu \Shut Down \Shift -> Hibernate. (Total 10 times, after Hibernation for 5 times do cold boot once.)	V		
8.	Hibernate by timeout (Total 10 times, after Hibernation for 5 times do cold boot once.)	V		
9.	Screen saver, Turn off monitor, Standby, Hibernate by timeout (Total 5 times, Set Screen saver(default) for 1 min, Turn off monitor for 2 mins, Standby for 3 mins, Hibernate for 5 mins.)	V		

10.	Wake from Standby by Scheduled Tasks. Test Procedures: 1. Click Start/Programs/Accessories/System Tools/Scheduled Tasks. 2. Double Click on Add Scheduled Task icon. 3. Click "Next" button. 4. Select "Calculator" then click "Next" button. 5. Mark "Daily" then click "Next" button. 6. Set the Start Time to 3 min. advance from your current time. 7. Set the Start Date to current date, click "Next" button. 8. Accept default, click "Next" button. 9. Check "Open advance properties.....", click "Finish" button. 10. Click "Settings" tab. 11. Under Power Management, Check "Wake the computer to run this task." 12. Click "Apply" button, click "OK" button. 13. Enter Standby mode. 14. Wait for 3 minutes, system will automatically resume from standby mode.	V		
11.	Wake from Hibernate by Scheduled Tasks. Test Procedures: 1. Base on 10. and enter Hibernate mode. 2. Wait for 3 minutes, system will automatically resume from hibernation mode.	V		
12.	Wake on Ring (Use Hyper terminal to test. After system was waked, the screen should keep black until you touch mouse or keyboard. And system still can work on call out without disconnect and re-create a new connection.)	V		
13.	Wake on LAN (After system was waked, the screen should keep black until you touch mouse or keyboard.)	V		
14.	Wake on USB device, force system enter Standby with USB mouse then click mouse left button to wake. (Please install HCT tool to test, HCT tool will enabled wake from USB function).	V		
15.	Force system enter Standby, plug in USB device, check system will not auto resume.	V		
16.	Check all LEDs indicators are working fine and correct.	V		
17.	Check all LEDs are working properly after resume from Standby, Hibernate	V		
18.	Check Fan is turned off in Standby/Hibernation mode.	V		
19.	Force the system entering standby by close panel (Lid switch set to Standby) during shutdown the system.	V		
20.	Force the system entering Hibernate by close panel (Lid switch set to Hibernate) during shutdown the system.	V		
21.	Make sure the low/critical battery alarm tone was generated and keep auto update remaining capacity of the battery.	V		
22.	Go to Start -> All Programs -> Accessories -> System Tools -> System Information -> Components -> Problem Devices, check no any error.	V		
23.	Go to Control panel -> Administrative Tools -> Event Viewer -> System, check no any unexpected error. (Please review its detail to determine, most of network and IR error are acceptable)	V		
No.	PCMCIA Function Check (Please follow procedures as below)	Pass	Fail	Remark
	1. Make sure the system can auto-detect the device while hot insert the PCMCIA card. 2. Make sure the PC card driver have setup complete without any error or hang up. 3. Make sure no exclamation mark in device manager when PC card was inserted. 4. Check the PCMCIA card function is working properly. 5. Make sure no exclamation mark in device manager after resume from Standby/Hibernate with PC card inserted. 6. Make sure the device does not list in device management after plug out the PC card.			
1.	Check the APA – 1480A SCSI Card (UltraSCSI) function	V		
2.	Check the APA – 1460D SCSI Card (Fast SCSI) function	V		
3.	Check the 3Com Megahertz 10/100 LAN+56K Modem (3CCFEM556B) function	V		
4.	Check the Xircom CBE2-100 Card Bus Ethernet card function	V		
5.	Check the IBM 512MB Microdrive CF+ Type II (DSCM-10512) function	V		

Comments:

Conclusion:

Base on above test result, this version BIOS V1.50 is better than old version. We agree to release BIOS V1.50

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