



Silicon Motion, Inc.

SM32X Test Program and ISP Release Note

**SM323&321 Test Program and ISP Release Note:**

Release Date	ISP Version	ISP Check Sum	Test AP Version	Description
2004/08/15	AB:2004-08-15	AB:0005A0DF	2004/08/15	TestAP: modify setting password and Win2k,WinXP time out set to 5 minutes ISP: Fixed the MSI mother board boot problem.
2004/08/23			2004/08/23	TestAP: modify setting password to "320"
2004/09/03	AC:2004-09-02	AC:0002AABB	2004/09/03	TestAP: support 323AC ISP:323AC ISP release
2004/09/13	AC:2004-09-10	AC:0003730E	2004/09/10	TestAP: If enlarge bad block , format build partition table will large than real capacity ISP:fix suspend current Fixed interleave mode copy error
2004/09/20			2004/09/20	TestAP: Win98 Pretest Flash Manager Fail Win98 driver smi320.sys update to 1.2 Enhance Write Performance
2004/09/24			2004/09/24	TestAP:323AC If already download ISP , Win98 after Pretest no reset
2004/10/01	AC:2004-10-01	AC:00051532	2004/10/01	TestAP: Win98 VIA SIS Pretest Fail ISP: Micro Flash support Customer 8 LED option
2004/10/14	AC:2004-10-14	AC:0005408E	2004/10/14	TestAP:add customer = 1 Led setting ISP: Fix Write Protect Page
2004/10/27	AC:2004-10-21 AD:2004-10-20	AC:0006565C AD:0001C09A	2004/10/27	TestAP: support ad version ISP: Interleave +2K/P mode Flash , Micron Flash , Win2K performance .
2004/10/28			2004/10/28	TestAP:open AD autorun support
2004/11/12			2004/11/12	TestAP: 2004/10/28 version format will hang , fix the problem
2004/11/23			2004/11/23	TestAP:fix AD after test OK LED no flash



2004/11/26			2004/11/26	TestAP : support multi device test
2004/12/09	AD:2004-12-10	AD:00028F46	2004/12/09	TestAP,ISP : fix 323AD customer=8 LED bug
2004/12/13			2004/12/13	Add Pretest time "no erase" function , for 323AD
2004/12/17			2004/12/17	Fix 12/13 bad block number is default value , can't adjust ,
2004/12/24	321AB: 2004-12-02	321AB:00007BCD	2004/12/24	Add 321 support Fix 323AD,321AB Pretest "no erase" bad block increase bug .
2004/12/27	323AD: 2004-12-27	323AD:0003786A	2004/12/27	TestAP: open auto run make 323ADISP:fix Win98,ME auto run hang
2004/12/30			2004/12/30	TestAP: If select make auto run can't format , Fix win98 , WinXP is OS limit
2005/01/27	321AB: 2005-01-27	321AB:0008612	E0127	TestAP: multi-device after show capacity ISP : fix 321AB customer=8 LED bug
2005/01/27			E0127 V2	TestAP: Add 321AC support
2005/02/02			E0202	TestAP:Add 321AC Support 0xD3,0xD5 Device ID
2005/02/03	321AC: 2005-02-03	321AC:0007D5D	E0202	ISP: 321AC ISP fix memorybar plug-in login to security
2005/02/16			E0216	TestAP: 1.Pretest reference flash bad block 2.Auto Clock
2005/02/17	323AD: 2005-02-17	323AD:0003ABCE		ISP:323AD ISP fix Win2k autorun
2005/02/18			E0218	TestAP: Fix 321AC test result LED no flash (for win98) 321AC K9G4G format problem
2005/02/24			E0224	TestAP:321AB 0x185 set to 0



2005/03/03			E0304	TestAP: modify customer=8 led frequency
2005/03/08			E0308	TestAP: disable cache program for HT/Hynix flash Fix 321AC pretest "No erase" but bad block number reduce problem
2005/03/08 V2			E0308 V2	TestAP : enable cache program for HT/Hynix flash
2005/03/15	323AD: 2005-03-15	323ADISP :0003AD79		323ADISP: Fix Mac OS 10.3.6 ZIP type show error message
2005/03/23	321AC: 2005-03-03	321ACISP:0001E576	E0323 V2	TestAP: option 0x185 set to 0 , detect AGAND/MLC flash set min bad block to 44 ST/Hynix clock set to 2 321AC ISP : Fix Winxp,Win2k AutoRun
2005/03/29	323AD_SEQ: 2005-03-25	323ADISP_SEQ: 0001F024	E0329	Support ST/Hynix 2K flash Samsung K9F4G,K9K8G,K9L8G
2005/03/30	323AD_SEQ: 2005-03-29	323ADISP_SEQ: 0001F5D1	E0330	Fix ST/Hynix twin mode
2005/04/01	323AD_SEQ: 2005-03-31	323ADISP_SEQ: 0003B5E9	E0401	ST/Hynix set to 20MHz Fix ST/Hynix twin mode
2005/04/04			E0404	ST/Hynix 2K set to Read 30 Write 20
2005/04/07			E0407	Samaung K9K4G change to R/W 40MHz
2005/04/07			E0407 V2	Add support K9L8G twin mode Add Led Ready Led busy setting
2005/04/09			E0409	Add Flash Database file
2005/04/15	321AC:	321AC:00032883	E0409	321AC WHQL HCT12.0 pass



	2005-04-13			
2005/04/20	321AB: 2005-04-19 321AC: 2005-04-20	321AB:0002014F 321AC:0003263E	E0420	1. Test Program add recognize USB Hub port function 2. 321AB fix win2k auto run 3. 321AC fix run memorybar partition plug-in show security partition
2005/04/21			E0421	1. twin mode dbf file setting (@ : single mode ! : twin mode)
2005/04/22			E0422	1. Win98 VIA Config hub problem
2005/04/27			E0427	1. 321AC after test OK LED flash
2005/04/29			E0429	1. add 321acptest.bin (Pretest) 2. fix 321AC after test LED no flash 3. test different flash on the same time
2005/05/03	323ADISP: 2005-05-02 323ADISP_SEQ: 2005-05-02	323AD: 3B4FD 323AD_SEQ: 3B9A1		1.DevEsti Program can't detect 323AD
2005/05/04	321ACISP: 2005-04-25	321AC: 35E96	E0504	TestAP: auto scan usb when plug-in 321AC ISP :fix suspend current
2005/05/09			E0509	TestAP: Fix 0504 run 321AB and 320AC show error message
2005/05/12	321ACISP: 2005-05-02	321AC:3B4FD	E0512	TestAP: Add Scan show bad block number 321ACISP: fix 321AC+Micro junior fail
2005/05/17			E0517	TestAP:Display show badblock error
2005/05/20			E0520	TestAP: 1. fix multi-device make auto run , only one device have image



				<ul style="list-style-type: none"> 2. Remove Win2k unsafe remove message 3. E0517 pretest bad block total over 20 then fail problem
2005/05/24	323AD: 2005-03-15 323AD_SEQ: 2005-03-31	323ADISP :0003AD79 323ADISP_SEQ: 0003B5E9		E0503 323ADISP Mac 9.2 can't recognize
2005/05/26			E0526	TestAP: 1. add format retry 2. add erase info block before pretest
2005/06/01			E0601	TestAP: 1. add write protect check before pretest 2. modify 321AC test program check bad block
2005/06/08			E0608	TestAP: 1. add a reset after download ISP , for k9w8g usb 1.1 unformat problem 2. add win98 no config hub can test 3. remove 0x21 vendor command in ReadConfig Button .
2005/06/16			E0608	1. E0608 add reset make 321AC after test LED no Flash , update ledproc321ac.bin
2005/06/23			E0623	<ul style="list-style-type: none"> 1. Check bad block can support MU large then 16 2. Hynix 8G twin 323AD , Run E0608 ISP no download
2005/06/24	321AC 2005-06-24	321AC: 00051C99	E0624	<ul style="list-style-type: none"> 1. add 321AC partial flash support 2. 321AC support micron interleave
2005/07/01	321AC 2005-07-01	321AC: 00050CCA	E0701	<ul style="list-style-type: none"> 1. add a partial flash and normal flash check box , if no check then capacity is calculate by bad block , if check then capacity is calaulate by partial size 2. 321ac ISP fix partial flash autorun function
2005/07/07			E0707	<ul style="list-style-type: none"> 1. add preload include sub directory function 2. fix Win2000 test multi-device OK , plug-out usb show "Get IC Version Fail"



2005/07/15	321AC_NR 2005-07-15		E0715	1. add SM321ACISP_NR.BIN isp for hynix NR chip
2005/07/25			E0725	1. add time out setting
2005/07/27			E0727 V2	1. add 321acptest_nr.bin for Hynix NR Pretest 2. fix 323AD ST Hynix some time copy compare fail
2005/08/02			E0802	1. add 321AC support Hynix NR ISP
2005/08/04			E0804	1. fix Preload file too large problem 2. add micron partial flash 3. fix get flash dbf file only get CE0
2005/08/08			E0808	1. modify partial size setting from M bytes to Block 2. fix 0804 dbf file bug
2005/08/11			E0811	1. 321AC If have ISP then pretest fail 2. add hynix 512 downgrade
2005/08/12			E0812	1. Update Config Hub function just need one scan then config
2005/08/15	321AC 2005-07-01	321AC: 0005633B	E0815	1. customer = 1 old memorybar , 8 new memorybar 2. update 321acisp for old and new memorybar
2005/08/17	323AD: 2005-08-17 323AD_SEQ: 2005-08-17	323ADISP :0004B7CD 323ADISP_SEQ: 0004CB57	E0817	1. 321AC K9WAG twin mode pretest fail 2. 323AD IBM NoteBook suspend resume
2005/08/18	323AD:	323ADISP:	E0817	1. 323AD IBM NoteBook i1200 cold boot Problem



	2005-08-18 323AD_SEQ: 2005-08-18	00050D41 323ADISP_SEQ: 000520CB		
2005/08/19	323AD: 2005-08-19 323AD_SEQ: 2005-08-19	323ADISP: 00050EDB 323ADISP_SEQ: 00052C21	E0817	1. 323AD fix chkdsk problem
2005/08/24			E0824	1. add AGAND 4G support
2005/09/05			E0905	1. fix 0812-0824 config hub can't scan large 2 hub . 2. add readback test program version . 3. add when > 2G format to FAT32 , (but preload function only support fat 16)
2005/09/09			E0909	1. add Scan capacity function 2. change partial size setting form block to M byte
2005/09/13			E0913	3. add back removeable type have partition table , because linux can't mount
2005/09/15			E0915	1. modify test program UI show bmp location
2005/09/16			E0916	1. add usb 1.1 button 2. modify scan capacity
2005/09/21			E0921	1. modify pretest string "No/RW Test" to "Erase only"
2005/09/22	323ad_SEQ: 2005-09-22	323adisp_seq: 00053729	E0921	1. update 323adisp_seq.bin for check sum error problem 2. update infupdate for no copy file to drivers folder
2005/09/28			E0928	1. after test ok , unplug 1 usb , don't refresh test result
2005/10/05			E1005	1. modify show icon 2. modify 321acptest.bin for intlv mode second flash no reference default bad block
2005/10/21			E1021	1. update smi32x2k.sys for avoid blue screen



				2. fix preload file cluster different bug
2005/10/25			E1025	3. New UI
2005/10/26			E1026	1. UI display on 800X600
2005/10/28			E1028	1. UI modify 2. open down grade setting bad block 44 limit
2005/11/02			E1102	1. fix E1028 AGAND can't set BB less then 44
2005/11/10			E1109	1. add 332aa support 2. add copy test % select 3. add font size can adjust
2005/11/11			E1111	1. add downgrade flash auto capacity
2005/11/15			E1115	1. add auto install driver 2. list can zoom to all window
2005/11/18			E1118	1. fix E1111 downgrade auto capacity
2005/11/30			E1130	1. ignoring MU check when downgrade flash 2. Duplicating write command after DoReset for K9G4G flash to solve LBA0 without FORMAT. 3. CLlCtrl Column Show and Hide. 4. Update Udisk information after test finish. 5. Add double click in ClistCtrl Item for reading CID information. 6. Decreasing refresh times when plug or un-plug udisk. 7. Edited copy compare percentage show when password failed. 8. Remember last column width in ClistCtrl.



				<ul style="list-style-type: none"> 9. Disable "Open Device Fail" Message. 10. Disable ClistCtrl column Auto-resize.
2005/12/1			E1201	<ul style="list-style-type: none"> 1. Update SM321ACPTTEST_micron.bin 2. Support K9HAG formatting with FAT32.(Label will exist) 3. Support Autorun+Public+Private 3IN1 option with APP3IN1=1 in INI file.
2005/12/2			E1202	<ul style="list-style-type: none"> 1. Update the INF Update program to solve losing detect UFD with factory driver in win2000.(Example: plug 14 UFDs but showed 13 UFD in Device Manager)
2005/12/5			E1205	<ul style="list-style-type: none"> 1. Fixed the port # (under item column) become "090c/1000" 2. Fixed not refresh "final actual" capacity, until 1 UFD is unplugged (or rescan) 3. Fixed "Open Device Fail" problem. 4. Add user setting the EndHead, EndSector and End Cylinder information.
2005/12/8	321ACISP: 2005-12-08	321ACISP: 00057D74	E1208	<ul style="list-style-type: none"> 1. Update the SM321ACISP.BIN for AUTORUN Duplication fixing in WinXP.
2005/12/12			E1212	<ul style="list-style-type: none"> 1. Add the setting of the maximum length of serial number in setting dialog. 2. Update the erasing processing before pretest for K9L8G flash.
2005/12/16	321ACISP: 2005-12-16	321ACISP: 00057FE0	E1216	<ul style="list-style-type: none"> 1. Update the SM321ACISP.BIN for Autorun three times in win2k sp4 with usb1.1 2. Erasing ISP process before pretest for SM322AD.
2005/12/22			E1222	<ul style="list-style-type: none"> 1. Add Serial Number for SM340 2. Support SM324BA
2005/12/23	324BAISP: 2005-12-23	324BAISP: 0012F131	E1223	<ul style="list-style-type: none"> 1. Update the SM324BAISP.BIN 2. Update the Checking of CardMode for 512 and 2K
2005/12/28	324BAISP: 2005-12-26	324BAISP: 00137A03	E1228	<ul style="list-style-type: none"> 1. Update SM324BAISP.BIN for Read Write Clock separate setting .
2006/01/10			F0110	<ul style="list-style-type: none"> 1. Modify the pretest string.



2005/12/29	321ACIAP: 2005-12-29	321ACISP" 0006BCA9	E1228	1. update 321acisp.bin for autorun + memorybar bug.
2006/1/12	324BAISP: 2006-01-12	324BAISP: 0014D8F2	F0112	1. Modify the ScanUSB button only if 「102」 caption became non zero in string table. 2. Modify the Serial Number process with mask and auto update with date.
2006/01/13			F0113	1. If autorun image too large , program will crash .
2006/01/17	324BAISP: 2005-01-16	324BAISP: 00014D932	F0117	1. update 324ISP for copy compare fail 2. update 324 pretest isp 3. add 2 flash to 321 dbf file
2006/01/19			F0119	1. update AGAND downgrade pretest , for some time capacity reduce half 2. modify check bad block only when do pretest
2006/01/20			F0120	1. modify sm32xtest2.exe add start button
2006/01/26			F0126	1. remove 323AD reset 2. add infineon 0x66 force ID 3. preload data problem
2006/01/27	321ACK9HAGISP: 2006-01-27	321ACK9HAGISP: 00068861	F0127	1. fix K9HAG miss compare problem
2006/02/15	321ACPTTEST: 2006-02-15		F0215	1. 321AC add hynix MLC pretest check last 2 page default bad block 2. 324BB add dbf K9F4G K9K8G K9WAG pll setting 3. 324BB small block flash download isp problem 4. if no select cid then can't select auto run
2006/02/16	324BBISP:		F0215	1. 324BB MLC twin mode support



	2006-02-15 324BBPTEST: 2006-02-16			2. mp tool show error card mode (mlc , slc),
2006/02/20	324BBPTEST: 2006-02-20		F0215	1. modify pretest blkn1 ,blkn2
2006/02/22	324BBISP: 2006-02-22		F0215	1 . K9K8G add erase cid before pretest 2 . K9K2G copy compare fail.
2006/02/23	324BBISP: 2006-02-23		F0215	1. modify 324 dbf k9k8g , k9f4g clock to 0x13 2. modify 324bb isp for mlc twin mode
2006/02/24	324BBISP: 2006-02-24		F0215	1. modify 324BB isp K9L8G 2 plane mode , format ok , power off , then unformat
2006/03/02			F0302	1. 321BB mp tool load wrong dbf file
2006/03/06	324BBISP: 2006-03-05		F0302	1. 324BB + K9HAG 2 plane mode , no format problem
2006/03/07	321ACK9HAGISP: 2006-03-07 321BBISP: 2006-03-06 324BBISP: 2006-03-07		F0307	v. . . 321AC K9HAG partial write limit to 1 v. . . 321BB small block usb enum problem v. . . 324BB K9NBG support 4. fat32 change reserve 0x26 to 0x20
2006/03/08			F0308	1. fat16 and fat32 format modify 2. 321BB+infineon HYF33DS 3. 321BB+Toshiba TC58NVG1D4B



2006/03/10			F0310	<ol style="list-style-type: none"> fat16 and fat32 for mac os 10.1 321BB card mode 321AC downgrade flash check bad block
2006/03/14	321ACISP: 2006-03-14	321ACISP: 00062048	F0314	<ol style="list-style-type: none"> 321AC hynix MLC , Samsung MLC . miss compare problem add 324 ST MLC dbf file
2006/03/15	321ACISP: 2006-03-15	321ACISP: 000624ED	F0315	<ol style="list-style-type: none"> MP tool format totalsector -1 fix 0314 321acisp 2K MLC fat have data problem
2006/03/16	321BBISP: 2006-03-16 324BBISP: 2006-03-16	321BBISP: 0006CE97 324BBISP: 0017F795	F0316	<ol style="list-style-type: none"> MP tool add every mu copy test fix 324BB usb 1.1 mp tool pretest fail fix 324BB and 321BB on 2K MLC fat data problem add 324 0xc1 0x76 force id
2006/03/17	324BBISP: 2006-03-17	324BBISP: 00018266C	F0317	<ol style="list-style-type: none"> MP too preload long file name 324BB Mac format , mac extension hang
2006/03/24	324BBISP: 2006-03-24	324BBISP: 00017B9A3	F0324	<ol style="list-style-type: none"> 324BB ISP fix when read data insert inquiry command then data error problem
2006/03/25			F0325	1 add SM324BBPTEST_SMIDriver.BIN file for SMI driver pretest fail problem
2006/03/28				1.fix 321BB AGAND pretest reference default bad block problem
2006/03/31	321BBISP: 2006-0331 324BBISP: 2006-0331	321BBISP: 0054144 324BBISP: 017CE47	F0331	<ol style="list-style-type: none"> 321BBISP , add multi-lun string 324BBISP , add multi-lun string 324BBISP-R , for AGAND flash MP tool , 321BB test pass led flash
2006/4/3			F0403	<ol style="list-style-type: none"> Add USBDisk Image for preload function.



				2. Fix AGAND Flash download 16K isp if isp size more than 16k for SM324BB
2006/04/06	321BBISP: 2006-0406	321BBISP: 0053FB6		1. 321BBISP for warm boot device not recognize problem
2006/04/07	321BBISP: 2006-0407 321AC2KMLCISP: 2006-0407	321BBISP: 0005AD44 321AC2KMLCISP: 00063708	F0406	1. Fix SM321BB reboot issue. 2. Fix SM321AC miss compare with K9HAG. 3. Update Flash_321BB.DBF and Falsh_324.DBF 4. Fix Format function in the MPTool. Let First data sector position in the multiple of 4.
2006/4/10	321ACISP: 2006-04-10 321BBISP: 2006-04-10	321ACISP: 0006F7FC 321BBISP: 0005ACF8	F0406	1. Fix the pretest for SM324BB-R. 2. Add the multi lun string for SM321AC. 3. Fix SM321BB reboot issue (0407 still fail)
2006/4/12			F0412	v. . . Change the MLC bad block information from last page. 2 Fixed the SM321BB copy-compare issue when MP tool running
2006/4/20	321ACISP 2006-4-20 321BBISP 2006-4-20	321ACISP 00060806 321BBISP 00069CF7	F0420	1. Modify the SM32x DBF file for the timing setting 2. Insert 0x85 command for the Micron 70nm Flash
2006/4/21	323ADISP 2006-4-21	323ADISP 00052445		1 Add the SM323 auto run + memory bar
2006/4/25	324BBISP 2006-04-25	324BBISP 0019867A	F0425	1. Insert 0x85 command for the Micron 70nm Flash 2. Preload in FAT32 format 3. Improve SM324+K9F4G for the performance in 2-plane mo



2006/5/4	324BBISP 2006-05-04 321AC2KMLC 2006-04-26	324BBISP 00198064 321AC2KMLC 000638A1	F0504	<ol style="list-style-type: none"> 1. SM321AC ISP fixed auto-run for the 2K MLC in Win2000 2. SM324BB ISP fixed the copy-compare failure in WinMe with 2-plane mode (2pcs of the K9F4G) 3. Fixed the automatics turn-off MU option for the Spectek flash 4. Fixed Win2000 copy-compare error when the MP tool run in the background 5. Modify the DBF file to correct the Hynix MLC/SLC Flash setting
2006/05/15	SM321ACISP 2006-05-11 SM321BBISP 2006-05-15	SM321ACISP 00061B16 SM321BBISP 0006B14F	F0515	<ol style="list-style-type: none"> 1. Adjust the format size for the 128MB and 256MB as the 0315 2. Disable MP tool copy-compare when enable the auto-run function 3. SM321BB randomly copy-compare failure during full size copy and plug-in/plug-out several times 4. Disable the copy-back function for the Hynix MLC
2006/05/22			F0522	<ol style="list-style-type: none"> 1. Fixed the capacity inconsistency for the SM321E(SM321BB)
2006/06/15	SM321BBISP 2006-06-15 SM324BBISP 2006-06-15 SM323ADISP 2006-06-01	SM321BBISP 00086AA8 SM324BBISP 00198C8A SM323ADISP 00052A96	F0615	<ol style="list-style-type: none"> 1. SM321BB support the Hynix HY27UV08AG5M interleave mode 2. Update the DBF file for correcting the flash option 3. SM324BB fixed the Samsung K9K1G08U0M power-off capacity didn't match 4. SM321BB and SM324BB support the Samsung K9G8G 5. SM323AD correct the product string didn't show up 6. MP tool correct the FAT32 format as the WinXP cluster size



2006/06/19	SM321BBISP 2006-06-17	SM321BBISP 00087027	F0619	<ol style="list-style-type: none"> 1. SM321BB fixed HY27UV088G5M interleave mode in WHQL Syscache 2. SM321BB fixed MLC interleave pretest bad block number
2006/07/18	SM324BBISP 2006-07-18	SM324BBISP 00199C1C	F0718	<ol style="list-style-type: none"> 1. SM324ISP for the Samsung K9F2G08U0A 2. Improve the SM324 with MLC flash performance 3. The MP tool fixed the some SM324 controller can't complete all testing steps in the second time. 4. Update the dbf files for the new flash
2006/08/21	SM321ACISP 2006-08-14 SM321BBISP 2006-08-18 SM324BBISP 2006-08-17	SM321ACISP 0006AD34 SM321BBISP 0008EAF5 SM324BBISP 001D3828	F0817	<ol style="list-style-type: none"> 1. SM321AC support the Samsung K9K8G interleave mode 2. SM321AC and SM321BB fix the CD-Creator compatibility 3. SM321AC support the Samsung K9F2G08U0A and K9LAG 4. SM321BB support the MSC USBCV r1.3 for the case13 5. SM321BB improve the MLC performance in Win2K 6. SM324BB support the multi-luns function 7. The MP tool support the CDROM size to 32GB 8. The MP tool fix the preload problem in FAT32 format
2006/08/30	SM324BBISP 2006-08-29	SM324BBISP 001D2F5D	F0830	<ol style="list-style-type: none"> 1. SM324BB add the floppy drive supporting 2. SM324BB MP tool for the multi-device testing unstable by using factory driver 3. SM321BB for the ignore "status checking" by the SM321bbisp_2k_nr.ISP 4. The MP tool add the optional for the FAT32 format 5. The MP tool add the preload to Floppy drive



2006/09/13	SM324BBISP 2006-09-13 SM321BBISP 2006-08-17	SM324BBISP 001D6EBF SM321BBISP 00086D00	F0913	<ol style="list-style-type: none"> 1. SM324 fix the copy-compare bug for the K9F2G08U0A 2. SM324 MP tool's factory avoid the testing stuck when one device failed 3. Support the Powerchip P1U1GR30AT 4. DBF setting for the Intel 72nm Flash: 29F04G08AANB1, 29F08G08BANB1, and 29F08G08FANB3 5. The SM321BB remove the case 13 parts
2006/09/29	SM324BBISP 2006-09-15 SM321BBISP 2006-09-28	SM324BBISP 001DBA67 SM321BBISP 00086DB3	F0928	<ol style="list-style-type: none"> 1. Support the AGAND Flash 1GB can be used just half size 2. SM324 -R ISP for the AGAND capacity increase to 485MB 3. Support the Specteck auto disable MU 4. SM321BB ISP fix the interleave mode for the MLC Flash 5. MP tool add the option for the K9F2GU0A single plan or two plane mode in the default.ini to cover too many bad block# in two plane
2006/10/05	SM321BBISP 2006-10-05 SM324BCISP 2006-10-04	SM321BBISP 00086016 SM324BC 0004CC8F	F1005	<ol style="list-style-type: none"> 1. SM321BB fix the MAC 10.4.2 can't recognized 2. SM324BC release
2006/10/20	SM321BBISP 2006-10-20	SM321BB_2KMLC 000B7401	F1020	<ol style="list-style-type: none"> 1. SM321BB_2KMLC support the Samsung 63nm MLC (K9G8G, K9LAG, K9HBG, K9MCG) NOP=1 2. MP tool fix the AGAND pretest second time failed 3. MP tool factory driver for the SM324BC
2006/10/25	SM324BCISP 2006-10-20	SM324BCISP 0006A6AB	F1025	<ol style="list-style-type: none"> 1. SM324BC pretest will not erase default bad block info 2. MP tool add flash ID 4bytes info



				<ul style="list-style-type: none"> 3. MP tool reduce the AG-AND pretest time and correct bad block 4. MP tool extend the CheckSize option from 4GB to 16GB
2006/10/27	SM321ACISP 2006-10-25 SM321ACISP 2006-10-27 SM324BBISP 2006-10-26 SM324BCISP 2006-10-26	SM321AC_2KMLC 000BD883 SM321ACISP 0006ADB4 SM324BBISP 001E12AC SM324BCISP 0006AA97	F1027	<ul style="list-style-type: none"> 1 SM321AC support NOP=1 for the Samsung MLC 2 SM321AC fix write-protect in the MAC 10.3.x 3 SM324BC fix the copy-compare error for the K9G8G and K9MCG 4 SM324BB fix the SM324 LED blanking abnormal status 5 SM324BC correct the right capacity 6 MP tool fix the SM321BB for the Micron MLC bad block number 7 SM324BB – R for the AG-AND CID/ISP corruption
2006/11/03	SM321ACISP 2006-11-02 SM324BCISP 2006-11-03	SM321AC_2KMLC 000BD712 SM324BCISP 0006E20F	F1103	<ul style="list-style-type: none"> 1. SM321AC NOP=1 ISP for the memory bar security mode 2. MP tool fix the SM321AC for the flash bad block info with different card mode 3. Increase Samsung MLC access cycle time from 50ns to 30ns 4. SM324BC ISP to increase the small file copying speed. 5. SM324BC ISP modify the Max. bad block number
2006/11/14	SM321BBISP 2006-11-13 SM324BCISP 2006-11-13	SM321BB_2KMLC 000B870C SM324BCISP 000749A4	F1114	<ul style="list-style-type: none"> 1. MP tool re-organized the subdirectory for the each product 2. MP tool check the Hynix MLC in the last page or last page –2 3. Set the Hynix MLC clock to 0x06 (82ns) 4. MP tool to display correct bad block number for the SM324BC 5. SM321BB NOP=1 for mark the bad block for the mode changes of the Samsung MLC 6. SM324BC max. the bad block number



				<ol style="list-style-type: none"> SM324BC for the Renesas single channel supporting SM324BC fixed the H/W write protect problem in WinMe and Win98 SM324BC will not check the RB0/RB1 for the 2-plane mode.
2006/11/29	SM321ACISP 2006-11-29 SM321BBISP 2006-11-29 SM321BBISP 2006-11-29 SM324BCISP 2006-11-27	SM321AC_2KMLC 000BDD01 SM321BBISP_2KMLC_MSC 000B1D42 SM321BBISP_2KMLC 000B9080 SM324BCISP 0007E79D	F1129	<ol style="list-style-type: none"> SM321AC NOP=1 ISP fixed the memory bar application problem in Samsung K9G8G SM32x NOP=1 ISP fixed the power on re-build table SM324BC fixed the reading of the default bad block MP tool changed of the SM324BB and SM324BC clock setting MP tool add the user specific Flash part number option MP tool correct the SM324BC's reserved max. bad block to meet the Flash spec. (SLC 2%, MLC 4%, Samsung MLC 2.5%) MP tool choose the auto run in SM321BB will disable the MSC
2006/12/19	SM321BBISP 2006-12-15 SM321BBISP 2006-12-15 SM324BBISP 2006-12-15	SM321BBISP_MSC 0008AF2F SM321BBISP 00084BF0 SM324BBISP 001E1AAF	F1219	<ol style="list-style-type: none"> SM321BB ISP to support the Samsung K9F1G08U0B SM321BB ISP to support the Vista RTM Auto-run SM324BB ISP for the Micron/Intel MT29F2G08AAC, MT29F4G08AAA, MT29F4G08BAB for the performance F1219 MP tool to avoid the SM321BB MSC and non-MSC ISP loading F1219 MP tool had full save the parameters in INI file with "save as" to user ini file. F1219 MP tool to support the preload file with the FAT12 F1219 MP tool to support the user setting for the max. bad block numbers in default.ini by the "original BadBlock=1"



				8. F1219 MP tool to support the Samsung K9F1G08U0B 9. F1219 MP tool's Auto-capacity option to have all good blocks 10. DBF File changes for the SM321AC, SM321BB, SM324BB, and SM324BC <ul style="list-style-type: none"> a. Samsung K9LAG08U0M, K9HBG08U1M, K9F1G08U0B b. Hynix HY27UV08AG5M, HY27US08121B c. ST NAND08GW3B2AN6, NAND04GW3B2BN6 NAND02GW3B2AN6 d. Micron MT29F8G08BAA, MT29F16G08FAA, MT29F8G08FAB, MT29F8G08FAC e. Intel JS29F04G08AANB1, JS29F16G08FANB1, JS29F08G08BANB1, JS29F08G08FANB3, JSF32G08FAMB1, JSF16G08CAMB1 JSF08G08AAMB1
2007/01/23	SM321BBISP 2007-01-22 SM321BBISP 2007-01-22 SM324BCISP 2007-01-23 SM324BBISP 2007-01-26	SM321BBISP_2KMLC 000B6CDF SM321BBISP_2KMLC_MSC 000 B795B SM324BCISP 0008F45A SM324BBISP 001E1C8D	G0117	1. SM321BB and SM324BC ISP for the Vista ready Boost read performance 2. SM324BB ISP fix the Micron SLC flash write timing 3. SM324BC ISP fixed the Case13 for the IMI tester 4. SM324BC ISP fixed the WHQL "frame work" 5. MP tool add option "justscan" in the default.ini for the supervisor mode 6. MP tool support the random serial number and 13 bytes 7. MP tool display the % of the total reserved block 8. MP tool fixed the copy-compare when enabling Floppy mode



2007/02/09	SM321BBISP 2007-02-02 SM324BCISP 2007-02-09 SM324BBISP 2007-02-09	SM321BBISP_MSC 00084AE6 SM324BCISP 00098787 SM324BBISP 001E20F0	G0209	<ol style="list-style-type: none"> 1. Enhance the SM321BB for the SLC ready-boost read performance. 2. SM321, SM321BB, and SM324BC support the Hynix 60nm MLC NOP=1 3. SM324BC ECC over 4-bit will mark bad block 4. MP tool fixed the preload for the long directory name (>11bytes) 5. SM324BB fixed LED blink when SCSI 0x25 6. DBF add the new flash setting: Hynix HY27UT088G2M, HY27UU08AG5M, Micron MT29F16G08QAA, Samsung K9F1208U0C, K9L8G08U0A, Intel JSF16G08CAMB2, JSF08G08AAMB2, JSF32G08FAMB2
2007/02/12			2007/02/12	<ol style="list-style-type: none"> 1. MP tool and DBF for Hynix HY27UV08BG5M 2. Slow the SM321AC clock to 0x04 for the Samsung K9WAG08U1A 3. Disable the SM321AC copy-back for the Micron 29F08G08CANB1
2007/03/13	SM321BBISP 2007-03-13 SM321BBISP 2007-03-13 SM324BCISP 2007-03-07 SM324BCISP 2007-03-07	SM321BBISP_MSC 000923FD SM321BBISP_2KMLC_MSC 000BB139 SM324BCISP 00099D9B SM324BCISP_HBG 0009C6D8	V1.16.04	<ol style="list-style-type: none"> 1. SM321BB support the Samsung K9F1208U0C 2. SM324BC set max. bad block to 56 will caused Vista format failed 3. SM324BC with K9F2GU0A had bad block in 0x7A~0x7E location caused "can't recognized" 4. SM321BB and SM324BC improve Vista ready boost first time read performance 5. SM324BC special ISP for the Samsung HBG to have <100mA operation current



	SM321BCISP 2007-03-09	SM321BCISP 000B4BBE		6. Add SM321BC ISP 7. MP tool change to date to version number V1.16.04 8. MP tool add the "DISKREADONLY" option in the default.ini
2007/04/11	SM324BCISP 2007-04-10 SM324BCISP 2007-04-04	SM324BCISP 0009FE02 SM324BCISP_HBG 0009E383	V1.16.11	1. MP tool support "Erase bad+55/AA option". 2. MP tool fixed MAC 10.1.5 with FAT32 format in G0313 3. MP tool fixed the Toshiba MLC bad block restoring. 4. MP tool fixed the each Single plane bad block display caused the MP tool display crash issue. (with K9NBG) 5. SM324BC ISP add the mark bad block when ECC error and not to disconnect the USB 6. SM324BC ISP fixed the power on save link to avoid the big file miss compare 7. SM324BC ISP fixed Micron MT29F8G08MAA mis-compare by repeat bad block
2007/05/07	SM321BBISP 200-04-23 SM321BBISP 2007-05-07 SM321BBISP 2007-05-07 SM324BCISP 2007-04-20 SM324BCISP	SM321BBISP 00090700 SM321BBISP_MLC_2plane 0017C03C SM321BBISP_4K 0018CD58 SM324BCISP 000AB47F SM324BCISP_4K	V1.16.16	1. SM321BB ISP fixed autorun showed "restart" in first time with some PC platforms. 2. SM321BB ISP add 2-plane mode for the MLC Flash to double the 2-plane MLC performance 3. SM324BC ISP fixed the bad block repeat marking. 4. SM324BC ISP fixed the plug-out/plug-in lost 64KB copy-back in the SLC copy-back mode. 5. SM324BC and SM321BB ISP add the Samsung 4KB/page flash (K9F8G08U0M & K9GAG08U0M) supporting (Beta version) for



	2007-04-11	00181E3A		<p>single channel.</p> <p>6. MP tool add the 2-plane mode flash force ID</p> <p>7. MP tool check max. reserved bad block number to have enough spare block.</p> <p>8. MP tool will erase ISP when ISP download error</p>
2007/06/08	SM321BBISP 2007-06-08 SM324BCISP 2007-06-04 SM324BCISP 2007-06-07 SM324BCISP 2007-06-07	SM321BBISP_4K 0018A992 SM324BCISP 000D0C77 SM324BCISP_4K_twin 0017CDE4 SM324BCISP_4K_sinlge 00175094	V1.16.19	<p>1. MP tool add the Samsung 4KB/page dual channel supporting (K9F8G and K9GAG)</p> <p>2. MP tool's default.ini add 2 options for the wear-leveling count parameters n (count number = nx256). Defaults: ISP count 10K (n=40), and Data Write count 2K (n=8).</p> <p>3. SM324BC ISP to support the new wear-leveling</p> <p>4. DBF file disable Intel MLC cache mode: JS29F16G08CAMB1 JS29F08G08AAMB1 JS29F16G08CAMB2 JS29F08G08AAMB2 JS29F32G08FAMB1 JS29F32G08FAMB2</p> <p>5. DBF file disable the "read programming status" checking for all MLC in SM324BC</p> <p>6. DBF file add new flash setting: K9G2G08U0M, K9L4G08U1M, MT29F4G08AAC, NAND08GW3C2A, NAND16GW3C2A</p>
2007/06/29	SM324BC 2007-06-29 SM324BC 2007-06-29	SM324BCISP_4K_twin 001A2E25 SM324BCISP_4K_sinlge 00199753	V1.16.22	<p>1. SM321BB and SM324BC support the Hynix 60nm date code after 726A. the date code between 712A to 726A need to use the other special ISP.(test_321_324_Hynix_60nm_G0625).</p> <p>2. SM324BC fixed the mark the same bad block when programming</p>



	SM324BC 2007-06-25 SM321BB 2007-06-26	SM324BCISP 000 D3E6F SM321BBISP_2Plane 0018D19E		<p>failed</p> <p>3. SM324BC fixed the 4KB/page copy-comparison failed in USB1.1</p> <p>4. SM324BC fixed the 2x K9F8G burn-in failed</p> <p>5. SM324BC add the new wear-leveling</p> <p>6. SM321BB and SM324BC fixed the GPS can't recognized by command 1A to check length is at dCBWTransferLength, not length in CBWCB</p> <p>7. MP tool fixed the bad block information for the force ID mode flash when pretest</p> <p>8. MP tool Support the Samsung K9KAG08U0M, K9LBG08U0M, K9WBG08U1M.</p> <p>9. DBF add new flash setting: NAND08GW3C2AN1 NAND08GW3C2AN6 NAND16GW3C2AN1 NAND16GW3C2AN6</p>
2007/07/10	SM324BC 2007-07-09 SM324BC 2007-07-09 SM321BB 2007-07-10	SM324BCISP_4K_SINGLE 00199733 SM324BCISP_4K_TWIN 001A2DE7 SM321BBISP_2Plane 0018D2DE	v.1.16.24	<p>1. SM324BC fixed the G0629 USB-IF MSC problem for the Samsung 4KB/page Flash</p> <p>2. SM321BB fixed the G0629 bug for the auto-run function in 2-plane mode</p> <p>3. MP tool for data area start LBA for the 32x for the Samsung 4KB/page performance</p> <p>4. MP tool supports the ST NAND08GW3C2AN</p>
2007/08/02	SM324BC 2007-08-02 SM324BC	SM324BCISP_4K_SINGLE 001C0406 SM324BCISP_4K_TWIN	v.1.16.26	<p>1. SM324BC improved the Samsung 4KB ISP wear-leveling</p> <p>2. SM324BC fixed the Samsung 4KB power-on-off problem</p> <p>3. SM324BC support the external Interleave mode for the Samsung</p>



	2007-08-02	001CD4D0		<p>4KB 2CE Flash (K9WBG, K9HCG) to have better performance</p> <p>4. MP tool changed the SM324BC Samsung 4KB capacity to consistence</p> <p>5. DBF file add the ST NAND256W3A0AN6 and NAND512W3A2BN6</p>
2007/08/28	SM321BB	SM321BBISP	v.1.16.29	1. SM321BB ISP fixed WinCE 5.0 un-recognized
	2007-08-22	0009FF77		2. SM321BB ISP fixed the mode sense ReadTOC function for the Vista auto-run
	SM321BB	SM321BBISP_MSC		
	2007-08-10	000975BD		3. SM321BB ISP support the Samsung K9G2G08U0M
	SM321BB	SM321BBISP_2KMLC		4. SM324BC ISP fixed CMD_21_F0 read the link-table problem
	2007-08-22	000BE5BF		5. SM324BC ISP improve the performance for the Samsung 4KB flash
	SM321BB	SM321BBISP_2KMLC_MSC		
	2007-08-10	000C0377		6. MP tool support the Samsung K9G2G08U0M
	SM321BB	SM321BBISP_4K		7. MP tool support the single-plane bad block number
	2007-08-10	0018B3F5		8. MP Tools check UFD size up to 64GB
	SM321BB	SM321BBISP_2PLANE		
	2007-08-22	0019E32E		
	SM321BB	SM321BBISP_2KMLC_MSC_K9G2G		
	2007-07-24	000BB3AD		
	SM324BC	SM324BCISP_4K_SINGLE		
	2007-08-22	001C5A3D		
	SM324BC	SM324BCISP_4K_TWIN		
	2007-08-22	001D4B7A		



2007/10/12	2007-10-01	001D0F1A	V1.17.02	1.	MP tool support the SM325AB
	SM325AB	SM325AB		2.	MP tool add the SM325 wear-leveling 2 option,
	2007-09-19	000A1026			OPT1EWEARLEVELING=4 (ISP swap every 16000 times) and
	SM321BB	SM321BBISP			OPT1FWEARLEVELING=50 (block write count difference below
	2007-09-19	000975CD			50)
	SM321BB	SM321BBISP_MSC		3.	MP tool changed the SM324BC 2KB capacity
	2007-09-19	000BF414		4.	MP tool fixed the bad block counting for the 4KB and 2KB in
	SM321BB	SM321BBISP_2KMLC			pretest
	2007-09-19	000C034F		5.	SM321BB ISP fixed the 2-lun application (read-only and mass
	SM321BB	SM321BBISP_2KMLC_MSC			storage) for the ready-only lun copy to the mass storage lun
	2007-09-19	0018B45B		6.	SM321BB ISP fixed autorun didn't response in the special HP
	SM321BB	SM321BBISP_4K			platform with (0xA8/0xAA SCSI command)
	2007-09-19	0019F01A		7.	SM324BC ISP fixed autorun in the Win2K
	SM321BB	SM321BBISP_2PLANE		8.	SM324BC ISP fixed 24 hours burn sometimes lost CID table in
	2007-09-19	000BB373			Micron Flash 2CE interleave mode
	SM321BB	SM321BBISP_2KMLC_MSC_K9G2G		9.	SM324BC ISP enable the Micron/Intel 72nm SLC Cache program
	2007-10-11	000DA677			to improve the performance
	SM324BC	SM324BCISP		10.	DBF disable the Micron MT29F32G08TAA copy back function
				11.	DBF add JS29F04G08AANC1, JS29F16G08AAMC1,
					JS29F32G08CAMC1, JS29F64G08FAMC1, K9G8G08U0A,
					HY27UF084G2B, HY27UT088G2A HY27UF08BGFB,
					HY27UH08AG5B HY27UF084G2B, HY27UG088G5B
2007/10/31	SM325AC	SM325ACISP	V1.17.05	1.	MP tool change the SM325AB/SM321CB to



	2007-10-24 SM324BC 2007-10-24	001E01C5 SM324BCISP 000DA67B		<p>SM325AC/SM321CC</p> <ol style="list-style-type: none"> 2. MP tool support the SM325AC/SM321CC oscillator clock setting 3. SM321CC/SM325AC ISP support the USB-IF 4. SM324BC ISP corrected the 2KB/p and 4KB/p capacity inconsistency problem. 5. SM321CC/SM325 AC ISP lower the suspend current 6. SM325DBF file modify the clock and duty cycle 7. SM325DBF change max. clock to the "0B"
2007/11/08	SM325AC 2007-11-08	SM325ACISP 0001E7A06	V1.17.06	<ol style="list-style-type: none"> 1. MP tool fixed the capacity will be half when the bad block equaled the max. bad block setting (example, SLC=20, MLC=44) 2. SM325 ISP fixed the 4CE Flash pretest failed 3. SM325 ISP support the read and write clock separated setting 4. SM325DBF change the clock setting format for the new MP tool/ISP 5. DBF added the Hynix HY27UF082G2B
2007/11/28	SM324BC 2007-11-27 SM324BC 2007-11-27	SM324BCISP_4K_SINGLE 0001C5DA4 SM324BCISP_4K_TWIN 0001D4EE1	V1.17.08	<ol style="list-style-type: none"> 1. SM324BC 4KB ISP fixed USB can't recognized when 0x1F9 is bad block. 2. MP tool fixed the SM321CC/SM325AC "disk size" checking option and ISP checksum



				<ol style="list-style-type: none"> 3. MP tool supported the Samsung K9LBG08U1M, and K9HCG08U5M 4. DBF file Modify Intel JS29F04G08AANB1, JS29F08G08CANB1, JS29F08G08BANB1, JS29F16G08FANB1, JS29F08G08AAMC1, JS29F04G08AANC1 R/W 60Mhz 5. DBF file of the SM325AC add PFC A1U8GA30GT 6. DBF file of the SM321BB and SM324BC support the HY27UF082G2B with disable cache& copyback and 60Mhz 7. DBF file add new K9LBG08U1M, K9HCG08U5M, MT29F2G08AAD,
2007/12/15	SM325AC 2007-12-14 SM324BC 2007-12-06 SM324BC 2007-12-06	SM325ACISP 002FECF8 SM324BCISP_4K_SINGLE 0024ADCA SM324BCISP_4K_TWIN 00236ECB	V1.17.12	<ol style="list-style-type: none"> 1. SM325AC ISP support the Micron/Intel/Toshiba 4KB MLC in Twin-2plane mode with clock 0x04 (48Mhz) 2. SM321CC/SM325AC ISP fixed the nVidia GEFORCE 6100-405(MCP615) USB compatibility 3. SM324BC 4KB ISP improve the small file wear-leveling 4. SM324BC 4KB ISP fixed the USB disconnection randomly when ECC error handling 5. MP tool fixed the SM321CC/SM325AC pretest in "erase bad block with 55 AA" function to mark the bad blocks 6. MP tool format adjust the SM321CC/SM325AC FAT32/FAT16 alignment



				<ul style="list-style-type: none">7. MP tool fixed the turn on/off MU setting8. MP tool support the DBF setting "@" for the single channel and "!" for the dual channel9. MP tool fixed the "preload" function with the wrong file attribute after preload to UFD
2007/12/19	SM325AC 2007-12-19 SM321BB 2007-12-14	SM325ACISP 002FEBE4 SM321BBISP_2PLANE 0001A53C6	V1.17.13	<ul style="list-style-type: none">1. SM325AC fixed LED lighting abnormal with setting after read/write randomly2. SM325AC ISP lower suspend current by setting /WP to low when suspend mode3. SM325 ISP improve inrush current by delaying the Flash access to 100ms when power-on4. SM321BB ISP fixed the burn-in failed with Micron 29F088GMAA by doing the ISP wear-leveling5. MP tool solve the format problem to cause the SM325 performance drop in G12156. MP tool fixed the BIOS choose UFD will frozen in Pheonx ROO7OJ47. SM325AC DBF correct the Micron/Intel 4KB MLC/SLC in Twin-2plane mode with clock 0x04 (48Mhz)8. DBF file add ST NAND02GW3B2DN6, NAND08GW3C2AN6, NAND16GW3C2AN6, HYNIX HY27UF08BGFB, HY27UH08AG5B, MICRON MT29F8G08AAA,



				MT29F16G08DAA, MT29F32G08FAA
2008/01/04	SM325AC 2008-01-04	SM325ACISP 002FF0A8	V1.17.15	<ol style="list-style-type: none"> 1. SM325AC ISP fixed the PC (ALI/SiS) restart and can't recognize UFD 2. SM325AC ISP fixed G1219 bug for the 4CE Flash 3. SM325AC ISP support PowerFlash 2-plane MLC 4. MP tool add SM321CC/SM325 downgrade flash supporting 5. MP tool add the SM321BB supporting Samsung K9LAG08U0A 6. MP tool fixed the check USB2.0/USB1.1 option error 7. MP tool add the capacity setting for data block size
2008/01/09			V1.17.17	<ol style="list-style-type: none"> 1. MP tool correct the SM321CC/SM325AC for the Intel 50nm 4KB default bad block information position (4096) of the first page and last page 2. MP tool correct the SM321CC/SM325AC for the Micron 50nm default block information position (4096) of the first page
2008/01/28			V1.17.19	<ol style="list-style-type: none"> 1. MP tool add the Hynix 57/60nm MLC for checking the last-2 page default bad block marking for the SM321BB, SM324BC, SM321CC, and SM325AC 2. MP tool changed the Intel 50nm MLC DBF file for the "disable cache" and lower clock to 60Mhz.
2008/02/01			V1.17.19 H0128	<ol style="list-style-type: none"> 1. MP tool fixed the SM321CC/SM325 MP tool unstable (hang or over block setting) when using multiple devices in production.



2008/02/29	SM324BC 2008-02-14 SM325AC 2008-02-26	SM324BCISP_4K_SINGLE 001C9C28 SM325ACISP 002FFDEE	V1.17.20 H0227	<ol style="list-style-type: none"> 1. SM324BC ISP fixed the Samsung 4KB MLC lost ISP when coping from 0x1F8 problem 2. SM325AC ISP fixed rebuild link table when ECC error to avoid the repeat marking same bad block 3. SM325AC ISP changes the "time to ready" < 100ms to meet the USB-IF spec. 4. MP tool add Vista FAT32 format to have better ready-boost performance to pass the premium logo. 5. DBF changed to enable the erase and programming status checking 6. Add DBF for the new Flash :HYNIX H27UAG8T2MTR, H27UCG8VFMTR, H27UDG8WFMTR, Micron MT29F8G08MAD
2008/03/19	SM325AC 2008-03-28 SM325AC 2008-03-03 SM325AC 2008-02-12 SM325AC 2008-02-12	SM325ACISP 002F698A SM325ACISP-MI2P 002F60FC SM325ACISP-HYNIX-4K 003B3DDF SM325ACISP_AG-AND 001EDD7A	V1.17.24 H0328	<ol style="list-style-type: none"> 1. SM325AC ISP dual channel to single plane for the Micron/Intel 50nm SLC/MLC in default setting and clock to 76Mhz 2. SM325ACISP-MI2P ISP for the dual channel/two plane of the Micron/Intel 50nm SLC/MLC for user setting 48Mhz 3. SM325AC ISP improve the random write performance 4. SM325AC ISP correct the USB-IF test vector pattern in set feature test package 5. SM325AC ISP support the Toshiba TH58NVG6D1DTG80



				<ol style="list-style-type: none"> 6. SM325AC fixed the auto run in win2000 7. SM325ACISP-HYNIX-4K.BIN Beta ISP support the Hynix 48nm MLC dual channel 8. SM325ACISP_AG-AND.BIN Beta ISP support the AG-AND MLC 9. MP tool fixed the wear-leveling wrong counter setting for the ISP and data area :OPT1EWEARLEVELING=SM325 ISP WEARLEVELING and OPT1FWEARLEVELING=SM325 DATAWEARLEVELING 10. MP tool modify the dialog of the DBF options "automatic" change to "TSOP Dual Stacked Package", and "High Performance" change to "TSOP Standard Type". 11. MP tool fixed the LED blinking after Format in SM325AC
2008-04-03	SM325AC 2008-04-03	SM325ACISP 002F5B5D	V1.17.24 H0328	<ol style="list-style-type: none"> 1. Fixed the bug of the H038 for the rebuild the Fat in power cycling testing
2008-04-14	SM325AC 2008-04-11	SM325ACISP 002C5E0E	V1.17.24 H0328	<ol style="list-style-type: none"> 1. SM321CC/SM325AC fixed the USB bus reset when coping data 2. SM321CC/SM325AC move ISP to strong page of the MLC 3. SM325AC ISP enable the 4KB page twin-interleave mode 4. SM325ACC/SM325AC changes the "time to ready" 80ms to fixed the NEC PCI express card host time out problem in W2K 5. SM321CC/SM325AC ISP read count set to 10,000, which



				SM325ISPWEARLEVELING=40 in the default.ini
2008-04-17	SM324BC	SM324BCISP_4K_SINGLE	V1.17.24	<ol style="list-style-type: none"> 1. SM324BC 4KB ISP fixed for the 4CE Flash 2. SM321BB ISP fixed the zip file with small files, which the power down didn't update the link table
	2008-04-17	0024F456	H0328	
	SM324BC	SM324BCISP_4K_TWIN		
	2008-04-17	002386DC		
	SM324BC	SM324BCPTEST_4K_Single		
	2008-04-17	00084682		
	SM324BC	SM324BCPTEST_4K_TWIN		
	2008-04-17	000 84D9C		
	SM321BB	SM321BBISP_2plane		
	2008-04-16	001A56FA		
2008/05/23	SM325AC	SM325ACISP-8CE	V1.17.28	<ol style="list-style-type: none"> 1. SM321CC/SM325AC ISP fixed the wrong ECC marking address when ECC failed 2. MP tool add the option to choose the 4CE and 8CE supporting 3. MP tool support the SM325 64-pin for the 8CE pretest and ISP loading 4. SM325 8CE ISP for the SM325-64pin 8CE supporting 5. DBF file add HYNIX H27U2G8T2MTR,INTEL JS29F08G08CANC1 setting 6. DBF lower the clock for the Intel/Micron 50nm MLC read clock to 60Mhz(0x90) and write clock to 48Mhz.(0x80) 7. DBF correct the Samsung K9GAG08U0M and K9LBG08U1M
	2008-05-21	0037972F	H0522	
	SM325AC	SM325ACISP		
	2008-05-08	002C7CDC		



				clock rate "0x0B" in twin mode
2008/06/20	SM325AC	SM325ACISP	V1.17.31	1. SM325AC ISP fixed the max. bad block setting > 52, which will
	2008-06-17	002DD17F	H0620	causes the write protected
	SM325AC	SM325ACISP-HYNIX-4K		2. SM325AC ISP fixed the Flash's write protection when VCC
	2008-06-04	0033DAAF		stay in the 2.7V to 1.8V range
	SM324BC	SM324BCISP_4K_SINGLE		3. SM325AC Hynix ISP for the Hynix 4KB/page Flash in twin
	2008-06-16	002504D1		mode
	SM324BC	SM324BCISP_4K_TWIN		4. SM324BC ISP fixed WinCE 5.0 can't be recognized
	2008-06-16	002391C8		5. MP tool "extra setting" for the hidden area downloading
				6. Mp tool corrected the SM325AC "Twin" mode status in the
				dialog
				7. MP tool "pretest" will use the DBF to enable/disable the
				functions
				8. MP tool integrated the QC testing
				9. MP tool remove the setting option of the "4CE" and "8CE" to
				avoid the wrong loading ISP. The SM325RX (8CE) will be
				separated MP tool to avoid the wrong clock setting
				10. MP tool hide option Turn Off MU in dialog setting, and show it
				by set in default.ini : [FUNCTION]ENABLETURNOFFMU=1.
				11. MP tool hide option Mix File in dialog setting, and show it by
				set in default.ini :
				[FUNCTION]EENABLESUPPORTMIXFILE=1.
				12. DBF file add ST NAND08GW3C2BN6,NAND16GW3C4BN6



				13.	DBF file enable the Hynix 48nm MLC program status checking
2008/07/14	SM325AC	SM325ACISP	V1.17.36	1.	SM325AC ISP fixed bad block marking (extra block) in dual-channel mode
	2008-07-08	002DD8FC	H0714	2.	SM325ACISP-HYNIX separated ISP for the Hynix Flash
	SM325AC	SM325ACISP-HYNIX		3.	SM321CC/325AC ISP supports the Samsung K9F4G08U0B, K9K8G08U0B, K9WAG08U1B and K9GAG08U0D.
	2008-07-02	00340DB3		4.	SM3252A preliminary ISP
	SM3252A	SM3252AISP		5.	MP tool support the SM3251/3252
	2008-07-01	00315B86		6.	MP tool fixed the auto run failed when enable FAT preload
				7.	MP tool Pretest mode add the "No erase all" option
				8.	Mp tool support Security + CDRom + Copytest + Preload
				9.	DBF file add the Samsung K9F4G08U0B, K9K8G08U0B, K9WAG08U1B, K9HBG08U1B, K9LAG08U0B and K9GAG08U0D
				10.	DBF file add the Intel/Micron add micron 34nm MT29F32G08MAA, MT29F64G08QAA, MT29F128G08TAA
				11.	DBF file enable the program status checking for the Hynix 48nm H27UBG8U5MTR, H27UCG8VFMTR, H27UCG8V5MTR SM321CC/SM325AC support Samsung MLC B-die: K9G8G08U0B and K9LAG08U0B
				12.	MP tool fixed the SM324BC QC add do-reset before read LBA 0



2008/07/25	SM325AC	SM325ACISP	V1.17.36	1.	SM325 fixed the FAT rebuild to avoid the UFD can't recognized in the randomly power down-up testing
	2008-07-25	002EAF3	H0722	2.	DBF added Spectek FNNL52A16K3WG, FNNL52A32K3W2, FNNL52A64K3W4
	SM325AC	SM325ACISP-HYNIX		3.	SM321CC/SM325AC DBF modify the Hynix 48nm MLC write clock from 90/90 to 07/01 in the H27UAG08U5MTR, H27UBG8U5MTR, H27UCG8VFMTR, H27UCG8V5MTR
	2008-07-25	0034E9EF			
	SM3252AA	SM3252AISP			
	2008-07-25	0034E9EF			
2008/08/28	SM324BC	SM324BCISP_4K_SINGLE	V1.17.38	1.	SM325ACISP enhance randomly power down-up handling.
	2008-08-26	0x258631	08/21 build	2.	SM325ACISP Modify Check ISP1, ISP2 block in system init.
		SM324BCISP_4K_TWIN		3.	SM325ACISP Modify plug-in delay time from 95ms to 65ms to fixed Vista and Win2000 S3 and S4 issue.
		0x243003		4.	SM325acISP-Hynix enhance randomly power down-up handling.
	SM325AC	SM325ACISP		5.	SM325acISP-Hynix Modify plug-in delay time from 95ms to 65ms to fixed Vista and Win2000 S3 and S4 issue.
	2008-08-15	0x2F13CF		6.	SM324BCISP_4K_SINGLE and SM324BCISP_4K_TWIN Modify Check ISP1~3, refresh ISP when any one ISP has ECC or no complete ISP code, for reduce write endurance. If all ISP fail, jump to ROM code.
	SM325AC	SM325ACISP-HYNIX-4K		7.	MP tool Modify Driving Current set to 8 mA with Hynix, Intel and Micron Flash
	2008-08-21	0x348979		8.	MP tool Modify Hynix 4K MLC Flash use
		SM325ACptest-HYNIX-4K			
		0x8734B			



				<p>SM325ACISP-HYNIX-4K.BIN, SM325ACptest-HYNIX-4K.BIN, otherwise use normal ISP and Pretest file.</p> <p>9. SM321CC/SM325AC DBF modify write clock from 0B/0B to 90/90 and Disable Cache Program in the K9GAG08U0D.</p> <p>10. SM321CC/SM325AC DBF modify write clock from 90/90 to 07/07 and enable Program Status Check in the H27UAG08U5MTR. Modify write clock from 90/90 to 07/01 and enable Program Status Check in H27UBG8U5MTR, H27UCG8VFMTR.</p> <p>11. MP tool fixed SM325AC/SM321CC download ISP with non-useful data to avoid checksum error.</p> <p>12. MP tool add button to dump ISP and dump block data for SM325AC/SM321CC.</p> <p>13. MP tool add function disable start button if run autoloader without ini file.</p> <p>14. MP tool add function setup mp version with file setting. set.</p>
2008/09/18	SM325AC 2008-09-10	SM325ACISP 0x38E86E	V1.17.39 09/18 build	<p>1. Fix MP preload FAT warning as last access time error.</p> <p>2. SM325ACISP Modify rebuilds table flow and adds check 2.7V action before program each time to enhance Power cycling handling.</p> <p>3. SM325ACISP Modify plug-in delay time from 95ms to 65ms and</p>



				after pull high write protect, then set VDT reset register to fixed S3,S4 issue in Vista and Windows2000.
2008/10/29	SM325AC 2008-10-06 SM325AC 2008-10-17 SM3252AC 2008-10-23	SM325ACISP 0x39EB72 SM325ACISP-InterLeave 0x39F602 SM3252ACISP 0x32A0E6	V1.17.42 10/29 build	<ol style="list-style-type: none"> 1. SM325AC ISP Modify rebuild table Flow, save link table Flow and check temp block flow to enhance power cycling. 2. SM325ACISP-InterLeave support K9LBG08U0M, K9KAG08U0M, K9LAG08U0M, K9L8G08U0A, K9K8G08U0B and K9K8G08U0A in one channel. 3. SM3252ACISP Modify plug-in delay time from 95ms to 65ms and after pull high write protect, then set VDT reset register to fixed S3,S4 issue in Vista and Windows2000. 4. SM3252ACISP add info block backup. 5. DBF file add Samsung K9F2G08U0B. 6. MP tool add NTFS Format. 7. MP tool add QC test support MultiLun.
2008/11/14	SM325AC 2008-10-06 SM325AC 2008-10-17 SM3252AC 2008-11-11	SM325ACISP 0x39EB72 SM325ACISP-InterLeave 0x39F602 SM3252ACISP 0x32A2A4	V1.17.42 11/10 build	<ol style="list-style-type: none"> 1. SM3252ACISP enable watch dog function.
2008/12/26	SM325AC 2008-12-19	SM325ACISP 0x3a0a5c	V1.17.44 12/18 build	<ol style="list-style-type: none"> 1. SM325ACISP reduces time when build table to fixed timeout issue in power book Mac G4 (10.4.10) and PS3 (F/W: 2.5).



	SM325AC 2008-12-26	SM325ACISP-InterLeave 0x3A2B19		2. SM325ACISP modify auto copy back issue in 2K/4K SLC flash to fixed data loss in Normal power cycling test.
	SM3252AC 2008-12-19	SM3252ACISP 0x7e677		3. SM325ACISP-InterLeave modify auto copy back issue in 2K/4K SLC flash to fixed data loss in Normal power cycling test.
	SM3252BA 2008-12-19	SM3252BAISP 0x32c7cd		4. SM3252ACISP and SM3252BAISP modify auto copy back issue in 2K/4K SLC flash to fixed data loss in Normal power cycling test.
				5. SM3252BAISP first release.
				6. MP Tool support SM3252BA and SM3252BA Force ID function.
				7. DBF file add Micron 34nm flash MT29F64G08CFAAA DDP and MT29F128G08TAA QDP.
				8. DBF file add flash ID to support K9GAG08U0Dx2 bonding 1CE pin.
				9. DBF file add Hynix 41nm H27UBG8T2MYR ULGA flash.
2009/01/12	SM325AC 2008-12-29	SM325ACISP 0x397E78	V1.17.46 01/12 build	1. SM325ACISP modify reserve block process flow to fix over spare pool bug.
	SM3252AC 2009-01-08	SM3252ACISP 0x33022F		2. SM3252ACISP and SM3252ACISP_MI_34nm modify Error handling flow to fixed Micron 34nm QDP and DDP burn-in fail issue
	SM3252AC 2009-01-08	SM3252ACISP_MI_34nm 0x333769		3. SM3252ACISP_MI_34nm enable random in/out command to support twin+2plane mode in Micron 34nm
	SM3252BA 2009-01-08	SM3252BAISP 0x33022F		4. SM3252BAISP and SM3252BAISP_MI_34nm modify Error



	SM3252BA 2009-01-08	SM3252BAISP_MI_34nm 0x333769		<p>handling flow to fixed Micron 34nm QDP and DDP burn-in fail issue</p> <ol style="list-style-type: none"> 5. SM3252BAISP_MI_34nm enable random in/out command to support twin+2plane mode in Micron 34nm 6. DBF file add Hynix 48nm H27U8G8T2B 7. MP tool modify display mistake in twin mode
2009/02/03	SM325AC 2009-02-02 SM3252AC 2009-02-02 SM3252AC 2009-02-03 SM3252BA 2009-02-02 SM3252BA 2009-02-03	SM325ACISP 0x39A94A SM3252ACISP 0x334C45 SM3252ACISP_MI_34nm 0x32CB25 SM3252BAISP 0x334C45 SM3252BAISP_MI_34nm 0x32CB25	V1.17.47 02/09 build	<ol style="list-style-type: none"> 1. SM325AC change 2-Plane Program Page CMD from 80h-11h-81h-10h to 80h-11h-80h-10h in Intel/Micron 50nm flash. 2. SM325AC change 2-Plane Program Page for Internal Data Move CMD from 85h-11h-81h-10h to 85h-11h-85h-10h in Intel/Micron 50nm flash. 3. SM3252ACISP and SM3252ACISP_MI_34nm change 2-Plane Program Page CMD from 80h-11h-81h-10h to 80h-11h-80h-10h in Intel/Micron 34nm. 4. SM3252ACISP and SM3252ACISP_MI_34nm change 2-Plane Program Page for Internal Data Move CMD from 85h-11h-81h-10h to 85h-11h-85h-10h in Intel/Micron 34nm. 5. SM3252BAISP and SM3252BAISP_MI_34nm change 2-Plane Program Page CMD from 80h-11h-81h-10h to 80h-11h-80h-10h in Intel/Micron 34nm. 6. SM3252BAISP and SM3252BAISP_MI_34nm change 2-Plane Program Page for Internal Data Move CMD from



				<p>85h-11h-81h-10h to 85h-11h-85h-10h in Intel/Micron 34nm.</p> <p>7. SM3252ACISP_MI_34nm and SM3252BAISP_MI_34nm add program status check and host retry.</p> <p>8. DBF file add Samsung K9F1G08U0C.</p>
2009/02/12	SM325AC	SM325ACISP	V1.17.48	<p>1. SM325ACISP modify change mode to support Samsung 42nm K9LBG08U0D and K9HCG08U1D flash.</p> <p>2. SM325ACISP-HYNIX modifies build table flow to reduce device Initial time.</p> <p>3. SM325ACISP_Disable_Interleave first release</p> <p>4. SM325ACISP-HYNIX_Disable_Interleave first release</p> <p>5. SM3252ACISP and SM3252BAISP modify change mode to support Samsung 42nm K9LBG08U0D and K9HCG08U1D flash.</p> <p>6. SM3252ACISP_MI_34nm and SM3252BAISP_MI_34nm modify build table flow to reduce device Initial time.</p> <p>7. MP tool add Disable Interleave option when add [OPTION] ShowDisableInterleave=1 in default.ini</p> <p>8. MP tool fixed the CDROM size larger than 4.0GB issue result public size mistake.</p>
	2009-02-11	0x39A002	02/16 build	
	SM325AC	SM325ACISP-HYNIX		
	2009-02-11	0x34049C		
	SM325AC	SM325ACISP_Disable_Interleave		
	2009-02-11	0x399399		
	SM325AC	SM325ACISP-HYNIX_Disable_Interleave		
	2009-02-11	0X341F75		
	SM3252AC	SM3252ACISP		
	2009-02-12	0x337093		
	SM3252AC	SM3252ACISP_MI_34nm		
	2009-02-12	0x32E170		
	SM3252BA	SM3252BAISP		
	2009-02-12	0x337093		
	SM3252BA	SM3252BAISP_MI_34nm		
	2009-02-12	0x32E170		



2009/03/02	SM325AC	SM325ACISP	V1.17.50	<ol style="list-style-type: none"> 1. SM325ACISP modify change mode to support ST NAND08GW3F2AN6. 2. SM3252ACISP and SM3252BAISP modify change mode to support ST NAND08GW3F2AN6. 3. SM325ACISP and SM325ACISP-HYNIX modify to fixed resume fail in Mac (10.4.8) PC. 4. SM3252ACISP and SM3252BA ISP modify to fixed resume fail in Mac (10.4.8) PC. 5. SM3252ACISP_MI_34NM and SM3252BAISP_MI_34NM modify to fixed resume fail in Mac (10.4.8) PC. 6. DBF file add ST NAND08GW3F2AN6, NAND16GW3D2AN6 and NAND04GW3C2BN6 7. MP tool support Auto- start production with factory driver.
	2009-02-25	0x39B446	03/05 build	
	SM325AC	SM325ACISP-HYNIX		
	2009-03-02	0x341BEB		
	SM3252AC	SM3252ACISP		
	2009-03-02	0x3378DD		
	SM3252AC	SM3252ACISP_MI_34NM		
	2009-03-02	0x32DDF6		
	SM3252BA	SM3252BAISP		
	2009-03-02	0x3378DD		
	SM3252BA	SM3252BAISP_MI_34NM		
	2009-03-02	0x32DDF6		
2009/03/12	SM325AC	SM325ACISP-HYNIX	V1.17.52	<ol style="list-style-type: none"> 1. SM325ACISP-Hynix modify to support ST flash NAND08GW3F2AN6, NAND16GW3D2AN6 and NAND04GW3C2BN6 in twin+2plane 2. SM3252ACISP and SM3252BAISP modify to support ST flash NAND08GW3F2AN6, NAND16GW3D2AN6 and NAND04GW3C2BN6 in twin+2plane 3. SM3252ACISP and SM3252BAISP modify to support Hynix 41nm flash H27UBG8T2MYR in twin+2plane 4. SM3252BBISP first formal release.
	2009-03-11	0x341DF7	03/19 build	
	SM3252AC	SM3252ACISP		
	2009-03-11	0x3384C6		
	SM3252BA	SM3252BAISP		
	2009-03-11	0x3384C6		
	SM3252BB	SM3252BBISP		
	2009-03-11	0X31E127		
	SM3252BB	SM3252BAISP_MI_34NM		



	2009-03-11	0X31E127		<ul style="list-style-type: none">5. SM3252BBISP support Micron L62A MT29F16G08CBABA and Micron L63B MT29F32G08CBABA.6. MP tool modify to support SM3252BB.
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