



SM2258XT Hynix 3D V4 Flash F/W & ISP Release Information – R1001A0

Introduction

This purpose of this document is to provide release information on the SM22X family F/W and ISP release information

Fix Coverage

- stands for the “new fix” or “new support” in the category
- stands for the “no-update” in the category

<input checked="" type="checkbox"/> MP Tool	<input checked="" type="checkbox"/> Controller ISP
<input type="checkbox"/> Yield Issue <input type="checkbox"/> Flash Issue <input checked="" type="checkbox"/> 3D TLC Flash <ul style="list-style-type: none"> <input type="checkbox"/> Samsung Flash <input type="checkbox"/> Toshiba/Sandisk Flash <input type="checkbox"/> Intel/Micron Flash <input type="checkbox"/> Hynix Flash <input type="checkbox"/> Others <input checked="" type="checkbox"/> MP Tool Bug Fix <input checked="" type="checkbox"/> MP Tool New Function <input checked="" type="checkbox"/> Feature Enhance	<input type="checkbox"/> Yield Issue <input type="checkbox"/> Flash Issue <input checked="" type="checkbox"/> 3D TLC Flash <ul style="list-style-type: none"> <input type="checkbox"/> Samsung Flash <input type="checkbox"/> Toshiba/Sandisk Flash <input type="checkbox"/> Intel/Micron Flash <input checked="" type="checkbox"/> Hynix Flash <input type="checkbox"/> Others <input checked="" type="checkbox"/> ISP Bug Fix <input checked="" type="checkbox"/> Feature Enhance



ISP Revision History

Package	ISP Version	MP Tool version	RDT version	Note
R1012A	R1001A0	R1009C	R0914A0	<p>ISP:</p> <ol style="list-style-type: none"> 1. Fix DLL lock to 0x01 issue.(sync B16 version) 2. Fix read count bug. 3. Decrease Flash Clock when thermal throttle enable. 4. Sync read scrub/reclaim break in read flow. 5. Fix recursive progwpro. 6. Fix Ulink script 6.0 fail item PwrMgt and Sanitize item. 7. Modified when setting fix temperature option thermal throttling doesn't work issue. 8. Add read disturbance wear leveling move flow. 9. Fix Ulink 6.0 protocol PWR item. 10. Fix operation in PWR to avoid RTBB if NAND quality is weak. <p>MPTool</p> <ol style="list-style-type: none"> 1. Add one option to notify MPISP run power off nand behavior at reset cpu procedure. 2. Add special Badblock counts display rule. ([OPTION] : EnBadCntDetail) 3. Display "Get Hynix New Retry Table" status report. 4. Display "RomCode" mode at MPTool when device didn't mount any Flash. 5. Bypass to check "F0" error if user use manual CH/CE map selection. 6. Always pull high "Dis HIPM" option owing to FW didn't support HIPM function. 7. Modify MPTool crash issue at display FlashID content of error message dialog. 8. Modify MPTool crash when "Download ISP" only at force romcode mode. 9. MPTool crash issue at "Fix usb port" function. (Full 16-port)
R0330A	R0330A0	R0323A	R0206A0	<p>ISP:</p> <ol style="list-style-type: none"> 1. Switch to dynamic fix boundary. 2. Adjust dynamic fix boundary strategy. 3. Fix UGSD active full over program issue. 4. Modify power on GC threshold 5. Fix queue full bug 6. Hynix v4 enable cache read 7. Fix 2channel GC partial load f2h 18k bug 8. Fix read count bug 9. After background Gc disable hd tune sustain write function



				MPTool: 1. Modify new MPISP Tag. 2. Modify that select "Check & Keep RDT" option and do pretest then also need to pre-check capacity enough or not? 3. Add new errorcode 0x09/0x0A for _SMIPtestGenDiffAddrTable(). 4. Always disable Internal/External interleave way setting.
R0205A	R0124A0	R0205A	Q1213A0	ISP 1. First formal release to support Hynix 3D V4 256Gb per die.

Note:

- 1. F/W and ISP update is recommended.
- 2. History # is denoted by "Version-Date" .

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