

Product Notification Form

PCN #: PCN16-0060.docx	Rev: 1.0	Issue Date: September 13th, 2016												
Type of Change: Design improvement for enhanced drive reliability at high temperature. <input checked="" type="checkbox"/> minor / <input type="checkbox"/> major														
Detailed Description of Change: The M.2 SATA SSD X-60m2 2242 / 2260 series (MLC) with 30GB up to 480GB and M.2 SATA SSD X-600m2 2242 / 2260 series (SLC) with 8GB up to 128GB capacity have been improved to address a sporadic drive non-initialization under rare high temperature conditions (>60°C Tcase). The symptom of non-initialization is temporary at high temperature only and does <u>not</u> lead to any data corruption or loss. Four signal termination resistors have been added to the printed circuit board (PCB) design, to ensure drive initialization under high operating temperature conditions.														
Quality impact: <input type="checkbox"/> minor / <input type="checkbox"/> major / <input checked="" type="checkbox"/> no														
Reliability impact: <input checked="" type="checkbox"/> minor / <input type="checkbox"/> major / <input type="checkbox"/> no Improved drive initialization sequence for high temperature power-on sequence (>60°C Tcase)														
Products affected: <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width:33%;">Series</th> <th style="width:33%;">Part Number</th> <th style="width:34%;">New Part Number</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align:center;">M.2 SATA SSD 2242 X-60m2 (MLC) / X-600m2 (SLC)</td> <td>SFSAdddGM1AA1T0-t-cc-216-STD</td> <td rowspan="6" style="text-align:center; vertical-align:middle;">Same, no change</td> </tr> <tr> <td>SFSAdddGM1AA2T0-t-cc-216-STD</td> </tr> <tr> <td rowspan="3" style="text-align:center;">M.2 SATA SSD 2260 X-60m2 (MLC) / X-600m2 (SLC)</td> <td>SFSAdddGM1AA1T0-t-cc-416-STD</td> </tr> <tr> <td>SFSAdddGM1AA2T0-t-cc-416-STD</td> </tr> <tr> <td>SFSAdddGM1AA4T0-t-cc-416-STD</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;">d = drive capacity; t = temperature grade C or I; c = chip configuration</p>			Series	Part Number	New Part Number	M.2 SATA SSD 2242 X-60m2 (MLC) / X-600m2 (SLC)	SFSAdddGM1AA1T0-t-cc-216-STD	Same, no change	SFSAdddGM1AA2T0-t-cc-216-STD	M.2 SATA SSD 2260 X-60m2 (MLC) / X-600m2 (SLC)	SFSAdddGM1AA1T0-t-cc-416-STD	SFSAdddGM1AA2T0-t-cc-416-STD	SFSAdddGM1AA4T0-t-cc-416-STD	
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Implementation date: October 3rd 2016														
Forecasted Milestones: The products will be fluently changed to the new revision. The expected switch date is indicated in the below table. Traceability is ensured through batch number.														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Milestone</th> <th style="width:50%;">Expected switch date</th> </tr> </thead> <tbody> <tr> <td>Qualification samples (all densities)</td> <td style="text-align:center;">Now, upon request</td> </tr> <tr> <td>Main production parts (all densities)</td> <td style="text-align:center;">October 2016</td> </tr> </tbody> </table>			Milestone	Expected switch date	Qualification samples (all densities)	Now, upon request	Main production parts (all densities)	October 2016						
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Qualification samples (all densities)	Now, upon request													
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Recommended Action: no action required														
Should you have any issues with the timeline or content of this change, please contact the representative Swissbit FAE listed below in your area within 20 days. No response will be deemed as customer's acceptance of the change and the change will be implemented pursuant to the implementation date set forth in this PCN.														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:33%;">Contacts</th> <th style="width:33%;">Name</th> <th style="width:34%;">Email</th> </tr> </thead> <tbody> <tr> <td>Application Engineer – EMEA</td> <td style="text-align:center;">Pablo Dorronsoro</td> <td style="text-align:center;">pablo.dorronsoro@swissbit.com</td> </tr> <tr> <td>Application Engineer – NA</td> <td style="text-align:center;">Roland Ochoa</td> <td style="text-align:center;">roland.ochoa@swissbit.com</td> </tr> <tr> <td>Application Engineer – JP</td> <td style="text-align:center;">Junji Kaneko</td> <td style="text-align:center;">junji.kaneko@swissbit.com</td> </tr> </tbody> </table>			Contacts	Name	Email	Application Engineer – EMEA	Pablo Dorronsoro	pablo.dorronsoro@swissbit.com	Application Engineer – NA	Roland Ochoa	roland.ochoa@swissbit.com	Application Engineer – JP	Junji Kaneko	junji.kaneko@swissbit.com
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Application Engineer – EMEA	Pablo Dorronsoro	pablo.dorronsoro@swissbit.com												
Application Engineer – NA	Roland Ochoa	roland.ochoa@swissbit.com												
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IMPORTANT NOTE:

Swissbit proactively announces and informs about every change in the product hardware and firmware. We always test backwards compatibility and assure best quality, reliability and transparency for our customers. We apologize for any inconvenience caused.

Affected products:

PN	Description	Series
605338	SFSA030GM1AA1T0-I-LB-216-STD	X-60m2 2242 (MLC)
605416	SFSA030GM1AA1T0-C-LB-216-STD	X-60m2 2242 (MLC)
605339	SFSA060GM1AA2T0-I-LB-216-STD	X-60m2 2242 (MLC)
605417	SFSA060GM1AA2T0-C-LB-216-STD	X-60m2 2242 (MLC)
605340	SFSA120GM1AA2T0-I-HC-216-STD	X-60m2 2242 (MLC)
605418	SFSA120GM1AA2T0-C-HC-216-STD	X-60m2 2242 (MLC)
605341	SFSA240GM1AA2T0-I-OC-216-STD	X-60m2 2242 (MLC)
605419	SFSA240GM1AA2T0-C-OC-216-STD	X-60m2 2242 (MLC)
605342	SFSA008GM1AA1T0-I-DB-216-STD	X-600m2 2242 (SLC)
605420	SFSA008GM1AA1T0-C-DB-216-STD	X-600m2 2242 (SLC)
605343	SFSA016GM1AA2T0-I-DB-216-STD	X-600m2 2242 (SLC)
605421	SFSA016GM1AA2T0-C-DB-216-STD	X-600m2 2242 (SLC)
605344	SFSA032GM1AA2T0-I-QC-216-STD	X-600m2 2242 (SLC)
605422	SFSA032GM1AA2T0-C-QC-216-STD	X-600m2 2242 (SLC)
605345	SFSA064GM1AA2T0-I-NC-216-STD	X-600m2 2242 (SLC)
605423	SFSA064GM1AA2T0-C-NC-216-STD	X-600m2 2242 (SLC)
605346	SFSA030GM1AA1T0-I-LB-416-STD	X-60m2 2260 (MLC)
605424	SFSA030GM1AA1T0-C-LB-416-STD	X-60m2 2260 (MLC)
605347	SFSA060GM1AA2T0-I-LB-416-STD	X-60m2 2260 (MLC)
605425	SFSA060GM1AA2T0-C-LB-416-STD	X-60m2 2260 (MLC)
605348	SFSA120GM1AA4T0-I-LB-416-STD	X-60m2 2260 (MLC)
605426	SFSA120GM1AA4T0-C-LB-416-STD	X-60m2 2260 (MLC)
605349	SFSA240GM1AA4T0-I-HC-416-STD	X-60m2 2260 (MLC)
605427	SFSA240GM1AA4T0-C-HC-416-STD	X-60m2 2260 (MLC)
605350	SFSA480GM1AA4T0-I-OC-416-STD	X-60m2 2260 (MLC)
605428	SFSA480GM1AA4T0-C-OC-416-STD	X-60m2 2260 (MLC)
605351	SFSA016GM1AA2T0-I-DB-416-STD	X-600m2 2260 (SLC)
605429	SFSA016GM1AA2T0-C-DB-416-STD	X-600m2 2260 (SLC)
605352	SFSA032GM1AA4T0-I-DB-416-STD	X-600m2 2260 (SLC)
605430	SFSA032GM1AA4T0-C-DB-416-STD	X-600m2 2260 (SLC)
605353	SFSA064GM1AA4T0-I-QC-416-STD	X-600m2 2260 (SLC)
605431	SFSA064GM1AA4T0-C-QC-416-STD	X-600m2 2260 (SLC)
605354	SFSA128GM1AA4T0-I-NC-416-STD	X-600m2 2260 (SLC)
605432	SFSA128GM1AA4T0-C-NC-416-STD	X-600m2 2260 (SLC)