

# Informational Notice

| <b>IN #:</b> IN17-0006   | <b>Rev:</b> 1.0                       | <b>Issue Date:</b> January 11th, 2018                           |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
|--|---------------------------------------|---|--------------|-------------|-------------------|--|--------------------------------------|---|------------------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|---|------------------------------|------------------------------|
| <b>Reason for Notification:</b> New DRAM component revision  |                                       |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| <p><b>Detailed Description:</b><br/>         This informational notice is to inform you about a DRAM replacement in the M.2 SATA SSD X-60m2 2260 series (MLC) up to 256GB capacity, X-66m2 2260 series (pSLC) up to 128GB capacity and X-600m2 2260 series (SLC) up to 128GB capacity, due to limited supply and DRAM EOL announcement from Nanya.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Current DRAM</th> <th style="width: 50%;">New DRAM</th> </tr> </thead> <tbody> <tr> <td>NT5CB128M16FP-DII</td> <td>NT5CC128M16IP-DII</td> </tr> <tr> <td>Nanya 2Gb DDR3 F-die DRAM, 30nm, BGA</td> <td>Nanya 2Gb DDR3L I-die DRAM, 30nm, BGA</td> </tr> </tbody> </table> <p>No changes in form fit and function. The performance values do not change.<br/>         Swissbit has completed its internal testing and has qualified the new DRAM die-revision to ensure full compliance and backward compatibility with the previous die-revision.<br/>         Updated FMD data is available upon request.</p>  |                                       |   | Current DRAM | New DRAM    | NT5CB128M16FP-DII | NT5CC128M16IP-DII                                      | Nanya 2Gb DDR3 F-die DRAM, 30nm, BGA | Nanya 2Gb DDR3L I-die DRAM, 30nm, BGA                           |                              |                              |   |                              |                              |                              |   |                              |                              |
| Current DRAM   | New DRAM                              |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| NT5CB128M16FP-DII  | NT5CC128M16IP-DII                     |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| Nanya 2Gb DDR3 F-die DRAM, 30nm, BGA   | Nanya 2Gb DDR3L I-die DRAM, 30nm, BGA |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| <p><b>Quality impact:</b><br/> <input type="checkbox"/> minor / <input type="checkbox"/> major / <input checked="" type="checkbox"/> no</p>  |                                       |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| <p><b>Reliability impact:</b><br/> <input type="checkbox"/> minor / <input type="checkbox"/> major / <input checked="" type="checkbox"/> no</p>  |                                       |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| <p><b>Products affected:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Series</th> <th style="width: 33%;">Part Number</th> <th style="width: 33%;">New Part Number</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center;">M.2 SATA SSD X-60m2 2260 series (MLC)<br/>30GB to 256GB</td> <td>SFSAdddGMgAA1T0-t-cc-416-STD</td> <td rowspan="9" style="text-align: center; vertical-align: middle;">Same, no change.<br/>Traceability via lot code on product label.</td> </tr> <tr> <td>SFSAdddGMgAA2T0-t-cc-416-STD</td> </tr> <tr> <td>SFSAdddGMgAA4T0-t-cc-416-STD</td> </tr> <tr> <td rowspan="3" style="text-align: center;">M.2 SATA SSD X-66m2 2260 series (pSLC)<br/>16GB to 128GB</td> <td>SFSAdddGMgAA1T0-t-cc-32P-STD</td> </tr> <tr> <td>SFSAdddGMgAA2T0-t-cc-32P-STD</td> </tr> <tr> <td>SFSAdddGMgAA4T0-t-cc-42P-STD</td> </tr> <tr> <td rowspan="2" style="text-align: center;">M.2 SATA SSD X-600m2 2260 series (SLC)<br/>16GB to 128GB</td> <td>SFSAdddGMgAA2T0-t-cc-416-STD</td> </tr> <tr> <td>SFSAdddGMgAA4T0-t-cc-416-STD</td> </tr> </tbody> </table> <p>d = drive capacity; g = generation; t = temperature grade C or I; c = chip configuration</p> |                                       |   | Series       | Part Number | New Part Number   | M.2 SATA SSD X-60m2 2260 series (MLC)<br>30GB to 256GB | SFSAdddGMgAA1T0-t-cc-416-STD         | Same, no change.<br>Traceability via lot code on product label. | SFSAdddGMgAA2T0-t-cc-416-STD | SFSAdddGMgAA4T0-t-cc-416-STD | M.2 SATA SSD X-66m2 2260 series (pSLC)<br>16GB to 128GB | SFSAdddGMgAA1T0-t-cc-32P-STD | SFSAdddGMgAA2T0-t-cc-32P-STD | SFSAdddGMgAA4T0-t-cc-42P-STD | M.2 SATA SSD X-600m2 2260 series (SLC)<br>16GB to 128GB | SFSAdddGMgAA2T0-t-cc-416-STD | SFSAdddGMgAA4T0-t-cc-416-STD |
| Series   | Part Number                           | New Part Number   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| M.2 SATA SSD X-60m2 2260 series (MLC)<br>30GB to 256GB   | SFSAdddGMgAA1T0-t-cc-416-STD          | Same, no change.<br>Traceability via lot code on product label. |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
|  | SFSAdddGMgAA2T0-t-cc-416-STD          |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
|  | SFSAdddGMgAA4T0-t-cc-416-STD          |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| M.2 SATA SSD X-66m2 2260 series (pSLC)<br>16GB to 128GB  | SFSAdddGMgAA1T0-t-cc-32P-STD          |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
|  | SFSAdddGMgAA2T0-t-cc-32P-STD          |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
|  | SFSAdddGMgAA4T0-t-cc-42P-STD          |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| M.2 SATA SSD X-600m2 2260 series (SLC)<br>16GB to 128GB  | SFSAdddGMgAA2T0-t-cc-416-STD          |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
|  | SFSAdddGMgAA4T0-t-cc-416-STD          |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| <b>Implementation date:</b> Estimated March 2018, floating transition based on stock   |                                       |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| <b>Recommended action:</b> No action required  |                                       |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |
| <p><b>IMPORTANT NOTE:</b><br/> <i>Swissbit – as a provider of industrial products – announces and informs about changes that will affect the form, fit, function or reliability of our products. We always test backwards compatibility and assure best quality, reliability and transparency for our customers. We apologize for any inconvenience caused.</i></p> <p><i>This Informational Notice is an optional information in accordance with JEDEC J-STD-046.</i></p>   |                                       |   |              |             |                   |  |                                      |   |                              |                              |   |                              |                              |                              |   |                              |                              |

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### Products affected:

| PN     | Description                  | Series             |
|--------|------------------------------|--------------------|
| 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)  |
| 606085 | SFSA120GM3AA4T0-I-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)  |
| 606237 | SFSA016GM3AA1T0-I-LB-32P-STD | X-66m2 2260 (pSLC) |
| 606238 | SFSA016GM3AA1T0-C-LB-32P-STD | X-66m2 2260 (pSLC) |
| 606239 | SFSA030GM3AA2T0-I-LB-32P-STD | X-66m2 2260 (pSLC) |
| 606240 | SFSA030GM3AA2T0-C-LB-32P-STD | X-66m2 2260 (pSLC) |
| 606241 | SFSA060GM3AA4T0-I-LB-42P-STD | X-66m2 2260 (pSLC) |
| 606242 | SFSA060GM3AA4T0-C-LB-42P-STD | X-66m2 2260 (pSLC) |
| 606243 | SFSA120GM3AA4T0-I-HC-42P-STD | X-66m2 2260 (pSLC) |
| 606244 | SFSA120GM3AA4T0-C-HC-42P-STD | X-66m2 2260 (pSLC) |
| 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) |