

## Product Change Notification – Minor change

<b>PCN #:</b> PCN23-0022	<b>Rev:</b> 1.0	<b>Issue Date:</b> April 25, 2023															
<b>Purpose of notification:</b> Formatting change for SD and microSD memory cards with 128GB capacity <b>Type of notification:</b> Minor change, for informational notice only																	
<b>Detailed Description:</b> Swissbit SD and microSD cards come pre-formatted with an exFAT file system as required by the SD specification. We have identified a misconfiguration related to the preformatting in cards with capacity of 128GB. The partitioning and exFAT formatting do not match the device size and extend beyond the available user area. Customers using the original formatting may encounter an issue when the host tries to allocate files in the non-existing device space. To check if the cards are affected, the available size of the volume reported by the operating system can be consulted. Affected devices will report 128,278,593,536 bytes available in the exFAT volume. Due to that, we recommend reformatting of the existing cards using the SD Card Formatter utility available for download at the SDA organization website: <a href="https://www.sdcard.org/downloads/formatter/">https://www.sdcard.org/downloads/formatter/</a>  The partitioning and formatting of 128GB SD and microSD cards of the S-5X and S-5Xu series produced and/or shipped after April 24, 2023 (production date: CW 17) will be adjusted. The change will affect only the preformatting. There is no change in user addressable capacity. There is no change to form, fit or function, nor change to Swissbit part numbers. Performance does not change and the data sheets remain unchanged.  Swissbit introduced additional precautions in the product release process to avoid such issues in the future.																	
<b>Technical details:</b> <table border="1"> <thead> <tr> <th></th> <th>Old</th> <th>New</th> </tr> </thead> <tbody> <tr> <td>Partitioning size</td> <td>250,609,664 sectors (128,312,147,968 bytes)</td> <td>244,809,728 sectors (125,342,580,736 bytes)</td> </tr> <tr> <td>Device user area capacity</td> <td>244,809,728 sectors (125,342,580,736 bytes)</td> <td>No change</td> </tr> <tr> <td>Partitioning</td> <td>MBR (master boot record)</td> <td>No change</td> </tr> <tr> <td>File system</td> <td>exFAT</td> <td>No change</td> </tr> </tbody> </table>				Old	New	Partitioning size	250,609,664 sectors (128,312,147,968 bytes)	244,809,728 sectors (125,342,580,736 bytes)	Device user area capacity	244,809,728 sectors (125,342,580,736 bytes)	No change	Partitioning	MBR (master boot record)	No change	File system	exFAT	No change
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<b>Quality impact:</b> No impact																	
<b>Reliability impact:</b> No impact																	
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g = generation, t = temperature grade E or I; x = configuration and options; y = firmware																	
<b>Implementation date:</b> April 24, 2023, (Production date: calendar week 17)																	
<b>Recommended action:</b> We recommend reformatting of the existing cards																	

## Product Change Notification – Minor change

**IMPORTANT NOTE:**

*Swissbit – as a provider of industrial products – 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.*

*This Minor Change PCN serves as an informational notice and is an optional information in accordance with JEDEC J-STD-046.*

**Products affected:**

Series	Part Number	New Part Number
S-50	SFSD128GL2AM1T0-E-7G-211-STD	No change, traceability over lot code
	SFSD128GL2AM1T0-I-7G-211-STD	
	SFSD128GL2AM1T0-E-7G-221-STD	
	SFSD128GL2AM1T0-I-7G-221-STD	
S-50u	SFSD128GN1AM1T0-E-7G-211-STD	
	SFSD128GN1AM1T0-I-7G-211-STD	
	SFSD128GN1AM1T0-E-7G-221-STD	
	SFSD128GN1AM1T0-I-7G-221-STD	
S-52	SFSD128GL2AM1T0-I-7G-2A1-STD	
S-52u	SFSD128GN1AM1T0-I-7G-2A1-STD	
S-55	SFSD128GL1AM1MT-E-6F-211-STD	
	SFSD128GL1AM1MT-I-6F-211-STD	
S-55u	SFSD128GN1AM1MT-E-6F-211-STD	
	SFSD128GN1AM1MT-I-6F-211-STD	
S-58	SFSD128GL1AM1MT-E-PL-21P-STD	
	SFSD128GL1AM1MT-I-PL-21P-STD	