

## Product Change Notification – Major change

<b>PCN #:</b> PCN22-0078	<b>Rev:</b> 1.0	<b>Issue Date:</b> August 18, 2022
<p><b>Purpose of notification:</b> Improved firmware with improved Power-Fail behavior for new design ins and product line maintenance</p> <p><b>Type of notification:</b> Major change</p>		
<p><b>Detailed Description:</b></p> <p>This product change notification is to inform you about a firmware update for the EN-2x product series, which uses firmware <b>AxT60Q</b> (TLC-mode) / <b>CxT60Q</b> (pSLC-mode)</p> <p>Firmware <b>AxU7CQ</b> (TLC-mode) / <b>CxU7CQ</b> (pSLC-mode) improvements:</p> <p>Protocol NVMe:</p> <ul style="list-style-type: none"> <li>• Improve thermal monitoring</li> <li>• Do not update the current power state after a set feature command with invalid NSID</li> <li>• Implement NMVe 1.3d update: Set features command with FID=0x03 (Set LBA range) and NSID=0xFFFFFFFF is aborted with invalid field status</li> <li>• Adjust entry and exit latencies in power state descriptor for PS3 and PS4</li> </ul> <p>Flash Handling:</p> <ul style="list-style-type: none"> <li>• Firmware Improvement for repeated sudden power off during boot up routine (until device signals ready)</li> </ul> <p>Swissbit has completed its internal testing and has qualified the new firmware to ensure full compatibility. We recommend to switch to the new firmware models.</p>		
<p><b>Quality impact:</b> No impact</p>		
<p><b>Reliability impact:</b> Improved</p>		

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Product series affected:		
Series	Part Number	New Part Number
EN-20	SFENdddddBgECxT0-t-xx-221-STD	SFENdddddBgECxT0-t-xx-231-STD
EN-26	SFENdddddBgECxT0-t-xx-22P-STD	SFENdddddBgECxT0-t-xx-23P-STD

d = drive capacity; g = generation, t = temperature grade C or I; x = configuration and options; z = standard or customer specific

**Implementation date:** August 2022  
 Products with new firmware can be ordered immediately. Products with old firmware remain orderable for approved customer applications under the condition that the host system and its behavior does not change (Hardware, Software, Workload, etc.). However, it is recommended to switch to the new FW for highest reliability.

**Recommended action:** Qualify new item with improved FW to ensure highest reliability in host system

***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.*

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**Products affected:**

Series	Part Number	New Part Number
EN-20	SFEN015GB2EC1T0-I-5E-221-STD SFEN030GB2EC1T0-I-5E-221-STD SFEN060GB2EC2T0-I-5E-221-STD SFEN120GB2EC4T0-I-5E-221-STD SFEN240GB2EC4T0-I-6F-221-STD	SFEN015GB2EC1T0-I-5E-231-STD SFEN030GB2EC1T0-I-5E-231-STD SFEN060GB2EC2T0-I-5E-231-STD SFEN120GB2EC4T0-I-5E-231-STD SFEN240GB2EC4T0-I-6F-231-STD
EN-26	SFEN005GB2EC1T0-I-5E-22P-STD SFEN010GB2EC1T0-I-5E-22P-STD SFEN020GB2EC2T0-I-5E-22P-STD SFEN040GB2EC4T0-I-5E-22P-STD SFEN080GB2EC4T0-I-6F-22P-STD	SFEN005GB2EC1T0-I-5E-23P-STD SFEN010GB2EC1T0-I-5E-23P-STD SFEN020GB2EC2T0-I-5E-23P-STD SFEN040GB2EC4T0-I-5E-23P-STD SFEN080GB2EC4T0-I-6F-23P-STD