

Product Notification Form

PCN #: PCN19-0026	Rev: 1.0	Issue Date: November 15, 2019																						
<p>Type of Change: Improved Firmware for new design ins and product line maintenance <input type="checkbox"/> minor / <input checked="" type="checkbox"/> major</p>																								
<p>Detailed Description of Change: This product change notification is to inform you about a firmware update for the following product series</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">X-75 (2.5")</td> <td style="width: 80%;">3D TLC, 240 – 960 GBytes</td> </tr> <tr> <td>X-75m2 2280</td> <td>3D TLC, 240 – 960 GBytes</td> </tr> <tr> <td>X-75m2 2242</td> <td>3D TLC, 240 – 480 GBytes</td> </tr> <tr> <td>X-75m (mSATA)</td> <td>3D TLC, 240 – 960 GBytes</td> </tr> <tr> <td>X-75s (SlimSATA)</td> <td>3D TLC, 240 – 960 GBytes</td> </tr> </table> <p>which use firmware SBR10006 (FW1).</p> <p>The firmware SBR10010 (FW2) has been improved as follows:</p> <ul style="list-style-type: none"> Stability improvement when issuing a NTFS format and S.M.A.R.T. WriteLog command simultaneously Normalized values for S.M.A.R.T. Attributes 0xA7 and 0xF8 Garbage collection (GC) improvement to increase power fail stability <p>Along with this firmware change, the circuitry has been optimized to reduce the temperature and power consumption of the controller. This has no impact on form, fit or function but reduces the controller temperature and power consumption while operating and in idle mode.</p> <p>Swissbit has completed its internal testing and has qualified the new firmware to ensure full compatibility. We highly recommend to switch to the new firmware revision.</p>			X-75 (2.5")	3D TLC, 240 – 960 GBytes	X-75m2 2280	3D TLC, 240 – 960 GBytes	X-75m2 2242	3D TLC, 240 – 480 GBytes	X-75m (mSATA)	3D TLC, 240 – 960 GBytes	X-75s (SlimSATA)	3D TLC, 240 – 960 GBytes												
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<p>Quality impact: <input type="checkbox"/> minor / <input type="checkbox"/> major / <input checked="" type="checkbox"/> no</p>																								
<p>Reliability impact: <input checked="" type="checkbox"/> minor / <input type="checkbox"/> major / <input type="checkbox"/> no Stability improvement.</p>																								
<p>Products affected:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Series</th> <th style="width: 40%;">Current Part Number</th> <th style="width: 45%;">New Part Number</th> </tr> </thead> <tbody> <tr> <td>X-75 (2.5")</td> <td>SFSAdddGQ1AKxTO-t-cc-216-STD</td> <td>SFSAdddGQ2AKxTO-t-cc-226-STD</td> </tr> <tr> <td rowspan="2">X-75m2 2280</td> <td>SFSAdddGM1AKxTO-t-cc-516-STD</td> <td>SFSAdddGM2AKxTO-t-cc-526-STD</td> </tr> <tr> <td>SFSAdddGM1AKxTO-t-cc-616-STD</td> <td>SFSAdddGM2AKxTO-t-cc-626-STD</td> </tr> <tr> <td rowspan="2">X-75m2 2242</td> <td>SFSAdddGM1AKxTO-t-cc-116-STD</td> <td>SFSAdddGM2AKxTO-t-cc-126-STD</td> </tr> <tr> <td>SFSAdddGM1AKxTO-t-cc-216-STD</td> <td>SFSAdddGM2AKxTO-t-cc-226-STD</td> </tr> <tr> <td>X-75m (mSATA)</td> <td>SFSAdddGU1AKxTO-t-cc-216-STD</td> <td>SFSAdddGU2AKxTO-t-cc-226-STD</td> </tr> <tr> <td>X-75s (SlimSATA)</td> <td>SFSAdddGV1AKxTO-t-cc-216-STD</td> <td>SFSAdddGV2AKxTO-t-cc-226-STD</td> </tr> </tbody> </table> <p>d = drive capacity; x = flash chip qty; t = temperature grade C or I; cc = chip configuration</p>			Series	Current Part Number	New Part Number	X-75 (2.5")	SFSAdddGQ1AKxTO-t-cc-216-STD	SFSAdddGQ2AKxTO-t-cc-226-STD	X-75m2 2280	SFSAdddGM1AKxTO-t-cc-516-STD	SFSAdddGM2AKxTO-t-cc-526-STD	SFSAdddGM1AKxTO-t-cc-616-STD	SFSAdddGM2AKxTO-t-cc-626-STD	X-75m2 2242	SFSAdddGM1AKxTO-t-cc-116-STD	SFSAdddGM2AKxTO-t-cc-126-STD	SFSAdddGM1AKxTO-t-cc-216-STD	SFSAdddGM2AKxTO-t-cc-226-STD	X-75m (mSATA)	SFSAdddGU1AKxTO-t-cc-216-STD	SFSAdddGU2AKxTO-t-cc-226-STD	X-75s (SlimSATA)	SFSAdddGV1AKxTO-t-cc-216-STD	SFSAdddGV2AKxTO-t-cc-226-STD
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<p>Implementation date: November 15, 2019 Products with new firmware can be ordered immediately. Products with old firmware remain orderable for approved customer applications unless host system and its behavior does not change (Hardware, Software, Workload, etc.) after initial qualification of the SSD product at customer side. However, it is recommended to switch to the new FW for highest reliability.</p>																								
<p>Recommended action: Qualify new item with improved firmware to ensure highest reliability.</p>																								

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Should you have any questions or concerns with the content of this change, please contact the Swissbit PCN team at customer.pcn@swissbit.com within 30 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.

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.

Products affected:

Series	Current ERP#	Current Part Number	New ERP#	New Part Number
X-75	606858	SFSA240GQ1AK4TO-C-6B-216-STD	TBD	SFSA240GQ2AK4TO-C-6B-226-STD
	606859	SFSA240GQ1AK4TO-I-6B-216-STD	TBD	SFSA240GQ2AK4TO-I-6B-226-STD
	606860	SFSA480GQ1AK2TO-C-8C-216-STD	TBD	SFSA480GQ2AK2TO-C-8C-226-STD
	606861	SFSA480GQ1AK2TO-I-8C-216-STD	TBD	SFSA480GQ2AK2TO-I-8C-226-STD
	606862	SFSA960GQ1AK4TO-C-8C-216-STD	TBD	SFSA960GQ2AK4TO-C-8C-226-STD
	606863	SFSA960GQ1AK4TO-I-8C-216-STD	TBD	SFSA960GQ2AK4TO-I-8C-226-STD
X-75m2 2280	606884	SFSA240GM1AK4TO-C-6B-616-STD	607223	SFSA240GM2AK4TO-C-6B-626-STD
	606885	SFSA240GM1AK4TO-I-6B-616-STD	607224	SFSA240GM2AK4TO-I-6B-626-STD
	606886	SFSA480GM1AK2TO-C-8C-516-STD	607225	SFSA480GM2AK2TO-C-8C-526-STD
	606887	SFSA480GM1AK2TO-I-8C-516-STD	607226	SFSA480GM2AK2TO-I-8C-526-STD
	606888	SFSA960GM1AK4TO-I-8C-616-STD	607228	SFSA960GM2AK4TO-I-8C-626-STD
	606889	SFSA960GM1AK4TO-C-8C-616-STD	607227	SFSA960GM2AK4TO-C-8C-626-STD
X-75m2 2242	606926	SFSA240GM1AK1TO-C-8C-116-STD	607207	SFSA240GM2AK1TO-C-8C-126-STD
	606927	SFSA240GM1AK1TO-I-8C-116-STD	607208	SFSA240GM2AK1TO-I-8C-126-STD
	606928	SFSA480GM1AK2TO-C-8C-216-STD	607209	SFSA480GM2AK2TO-C-8C-226-STD
	606929	SFSA480GM1AK2TO-I-8C-216-STD	607210	SFSA480GM2AK2TO-I-8C-226-STD
X-75m	606872	SFSA240GU1AK4TO-C-6B-216-STD	607255	SFSA240GU2AK4TO-C-6B-226-STD
	606873	SFSA240GU1AK4TO-I-6B-216-STD	607256	SFSA240GU2AK4TO-I-6B-226-STD
	606874	SFSA480GU1AK2TO-C-8C-216-STD	607257	SFSA480GU2AK2TO-C-8C-226-STD
	606875	SFSA480GU1AK2TO-I-8C-216-STD	607258	SFSA480GU2AK2TO-I-8C-226-STD
	606876	SFSA960GU1AK4TO-C-8C-216-STD	607259	SFSA960GU2AK4TO-C-8C-226-STD
	606877	SFSA960GU1AK4TO-I-8C-216-STD	607260	SFSA960GU2AK4TO-I-8C-226-STD
X-75s	606896	SFSA240GV1AK4TO-C-6B-216-STD	607237	SFSA240GV2AK4TO-C-6B-226-STD
	606897	SFSA240GV1AK4TO-I-6B-216-STD	607238	SFSA240GV2AK4TO-I-6B-226-STD
	606898	SFSA480GV1AK2TO-C-8C-216-STD	607240	SFSA480GV2AK2TO-C-8C-226-STD
	606899	SFSA480GV1AK2TO-I-8C-216-STD	607241	SFSA480GV2AK2TO-I-8C-226-STD
	606900	SFSA960GV1AK4TO-C-8C-216-STD	607242	SFSA960GV2AK4TO-C-8C-226-STD
	606901	SFSA960GV1AK4TO-I-8C-216-STD	607243	SFSA960GV2AK4TO-I-8C-226-STD