

# Product Notification Form

<b>PN #:</b> PCN_20160818_SFUI_16GB_EOL_STD.doc	<b>Rev:</b> 1.0	<b>Issue Date:</b> August 18, 2016
<b>Type of Change:</b> End Of Life notification for 16GB U-110 embedded eUSB modules <input type="checkbox"/> minor / <input checked="" type="checkbox"/> major		
<b>Detailed Description of Change:</b> Due to the Micron M62B (34nm) NAND Flash going EOL, Swissbit is forced to discontinue the above mentioned product. The U-110 16GB eUSB Flash module will be replaced with the new product series U-400 based on latest 24nm SLC NAND technology which offers longer lifecycle support through CY 2021.		
<b>Reason for Change:</b> Planned NAND Flash discontinuation by supplier Micron		
<b>Products affected:</b>		
<b>Series</b>	<b>Part number</b>	<b>Alternative series U-400 eUSB</b>
16GB U-110 embedded eUSB module	SFUI16GBx1BP2MT-t-QT-2y1-xxx	SFUI016Gx1AB1T0-t-QT-2y1-xxx
t = temperature grade C or I; x = options, like revision, density and custom configuration; y = firmware revision		
<b>Forecasted Milestones:</b>		<b>Date</b>
Qualification Samples		available
Last Time Buy		February 20, 2017 <sup>*)</sup>
Last Time Delivery		August 21, 2017
<sup>*)</sup> We have been informed by the NAND supplier that orders placed prior to the last purchase date are subject to their inventory levels, which may vary based on market conditions and customer demand. Early orders are encouraged.		
<b>Recommended Action:</b> Qualification of replacement part U-400 series		
<b>Reference Documents / Attachments:</b> Fact sheet replacement series U-400 eUSB: <a href="#">Fact sheet eUSB U-400 series</a>		
Should you have any issues with the content of this change, please contact the representative listed below within 20 days. No response will be deemed as customer's acceptance of the change and the change will be implemented.		
<b>Contacts</b>	<b>Name</b>	<b>Email</b>
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<b>IMPORTANT NOTE:</b> 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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### Series comparison:

	Current series U-110	Replacement series U-400
	16GB U-110 eUSB module	16GB U-400 eUSB module
<b>Dimension</b>	Standard: 36.8 mm x 26.65 mm x 9.6 mm Low Profile: 36.8 mm x 26.65 mm x 5.7 mm	
<b>Connector</b>	Standard: 2.54 mm – 10 Pin (key option) Low Profile: 2.00 mm – 10 Pin (key option)	
<b>Voltage</b>	5 V ± 10 % (3.3 V ± 5 % optional)	3.3 V ± 5 % / 5 V ± 10 % (dual voltage)
<b>Interface</b>	USB 2.0 High / Full Speed USB1.1 full speed compatible	
<b>Flash</b>	SLC NAND, 34nm	SLC NAND, 24nm
<b>Endurance</b>	100,000 P/E Cycles (Flash Cell Level)	

### Features:

	Current series U-110	Replacement series U-400
	16GB U-110 eUSB module	16GB U-400 eUSB module
<b>Proven Power Fail Safety</b>	✓	✓
<b>Windows / Linux – Spare block read out</b>	✓	✓
<b>Bootable USB Drive</b>	✓	✓
<b>Supports latest OS as Fixed Drive</b>	✓	✓
<b>Connector pitch &amp; key variations available</b>	✓	✓
<b>Shock &amp; vibration resistant</b>	✓	✓
<b>Near Miss ECC</b>	✗	✓
<b>Read Disturb Management</b>	✗	✓
<b>Data Care Management</b>	✗	✓
<b>Diagnostics with Life Time Monitoring tool</b>	✗	✓
<b>Firmware and configuration update in field</b>	✗	✓
<b>Dual voltage (3.3V or 5V supply)</b>	✗	✓
<b>Write protect switch (optional)</b>	✗	✓
<b>Security chip support (optional)</b>	✗	✓
<b>MLC variation available</b>	✗	✓ (U-45 series)

### Performance comparison:\*)

Series	Sequential Reads (MBPS)	Sequential Writes (MBPS)	Random Reads 4KB (IOPs)	Random Writes 4KB (IOPs)
U-400	up to 33	up to 30	up to 1,600	up to 30
U-110	up to 31	up to 23	up to 1,600	up to 30

\*) Effective speed varies with controller, number and type of flash, host, file size, file system and operating system

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**Products affected:**

Current series U-110		Replacement series U-400
SAP	Part number	Part number
604086	SFU16GBJ1BP2MT-C-QT-221-STD	SFU1016GJ1AB1TO-C-QT-211-STD SFU1016GJ1AB1TO-I-QT-211-STD  (dual voltage supply)
604050	SFU16GBJ1BP2MT-I-QT-221-STD	
604576	SFU16GBJ1BP2MT-C-QT-231-STD	
604578	SFU16GBJ1BP2MT-I-QT-231-STD	
605903	SFU16GBJ1BP2MT-C-QT-241-STD	
605904	SFU16GBJ1BP2MT-I-QT-241-STD	
604575	SFU16GBJ1BP2MT-C-QT-231-3V3	
604577	SFU16GBJ1BP2MT-I-QT-231-3V3	
605181	SFU16GBJ1BP2MT-I-QT-241-3V3	
605182	SFU16GBJ1BP2MT-C-QT-241-3V3	
604970	SFU16GBK1BP2MT-I-QT-231-3NC	On request