

Product Notification Form

PN #: PCN16-0063.doc	Rev: 1.0	Issue Date: September 19, 2016		
Type of Change: S-45µ Series microSD Memory Cards conversion to new NAND Flash DIE shrink <input type="checkbox"/> minor / <input checked="" type="checkbox"/> major S-40µ Series microSD Memory Cards conversion to the S-45µ Series with the new NAND Flash DIE shrink				
Detailed Description of Change: This notification is to inform you about a NAND Flash shrink change. Toshiba will discontinue the supply of A19nm MLC. The Flash DIE of the S-45µ Series will be replaced with the latest 15nm MLC NAND technology which offers longer lifecycle support. The S-40µ Series will be replaced by the S-45 Series with the new 15nm MLC NAND Flash DIE.				
<u>Product Series Comparison:</u>				
	S-40µ	S-45µ	New generation: S-45µ	Comment
Interface	SD 3.0	SD 3.0 UHS-I	SD 3.0 UHS-I	
NAND Flash	Toshiba A19nm MLC	Toshiba A19nm MLC	Toshiba 15nm MLC	
MCU	S8A / S8B	S8B	S8B	
FW	Ver 1 / Ver 2	Ver A – durabit	Ver B – durabit	See firmware change log
PCB	NM11	NM11	NM20	Adaption for new DIE sizes
Package	Molding	Molding	Molding	
Speed class	Class 6	Class 10	Class 10	
<u>Firmware change log (Ver B):</u> <ul style="list-style-type: none"> • durabit FW architecture (page based FTL) • Improved compatibility: <ul style="list-style-type: none"> ○ for critical SD signal quality ○ with USB readers that use life time monitoring and diagnostic features ○ for protocol handling ○ host chipsets • Improved power fail stability by writing 				
Quality impact: <input type="checkbox"/> minor / <input type="checkbox"/> major / <input checked="" type="checkbox"/> no				
Reliability impact: <input type="checkbox"/> minor / <input type="checkbox"/> major / <input checked="" type="checkbox"/> no				
Reason for Change: End-Of-Life of Toshiba A19nm NAND Flash				

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Products affected:				
Product Description	Series	EOL Part Number	Series	New Part Number
4GB microSD Memory Card	S-45μ	SFSD4096N2BM1T0-t-GE-2A1-STD	S-45μ	SFSD4096N3BM1T0-t-GE-2B1-STD
8GB microSD Memory Card		SFSD8192N2BM1T0-t-LF-2A1-STD		SFSD8192N3BM1T0-t-LF-2B1-STD
16GB microSD Memory Card		SFSD016GN2BM1T0-t-HG-2A1-STD		SFSD016GN3BM1T0-t-HG-2B1-STD

Product Description	Series	EOL Part Number	Series	New Part Number
4GB microSD Memory Card	S-40μ	SFSD4096N2BM1T0-t-GE-1x1-STD	S-45μ	SFSD4096N3BM1T0-t-GE-2B1-STD
8GB microSD Memory Card		SFSD8192N2BM1T0-t-LF-1x1-STD		SFSD8192N3BM1T0-t-LF-2B1-STD
16GB microSD Memory Card		SFSD016GN2BM1T0-t-HG-1x1-STD		SFSD016GN3BM1T0-t-HG-2B1-STD

t = temperature grade C or I, x = options and custom configuration

Implementation date: Conversion phase starting in Q4 2016, for 4GB in Q1 2017

Forecasted Milestones:

Density	Milestone	Date
8GB – 16GB	Qualification samples availability	available
	Last Time Buy – LTB	Dezember 19, 2016
	Last Time Shipment – LTS	Dezember 31, 2017
4GB	Qualification samples availability	CW 50, 2016
	4GB – Last Time Buy – LTB	March 17, 2017
	4GB – Last Time Shipment – LTS	Dezember 31, 2017

Recommended Action: Qualification of new products

Reference Documents / Attachments: -

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.

Contacts	Name	Email
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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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Affected Parts:

S-45μ	
SAP	Swissbit Part Number
605321	SFSD4096N2BM1TO-I-GE-2A1-STD
605322	SFSD4096N2BM1TO-E-GE-2A1-STD
605323	SFSD8192N2BM1TO-I-LF-2A1-STD
605324	SFSD8192N2BM1TO-E-LF-2A1-STD
605325	SFSD016GN2BM1TO-I-HG-2A1-STD
605326	SFSD016GN2BM1TO-E-HG-2A1-STD

S-40μ	
SAP	Swissbit Part Number
605026	SFSD4096N2BM1TO-E-GE-111-STD
604995	SFSD4096N2BM1TO-I-GE-111-STD
605306	SFSD4096N2BM1TO-E-GE-121-STD
605305	SFSD4096N2BM1TO-I-GE-121-STD
605025	SFSD8192N2BM1TO-E-LF-111-STD
604996	SFSD8192N2BM1TO-I-LF-111-STD
605308	SFSD8192N2BM1TO-E-LF-121-STD
605307	SFSD8192N2BM1TO-I-LF-121-STD
605027	SFSD016GN2BM1TO-E-HG-111-STD
604997	SFSD016GN2BM1TO-I-HG-111-STD
605310	SFSD016GN2BM1TO-E-HG-121-STD
605309	SFSD016GN2BM1TO-I-HG-121-STD