

PN #: PCN_20150616_SFSD_19nm_S-40		Rev: 1.0	Issue Date: Ju	ne 16, 2015	
/pe of Change:	Product change notifica S-40µ Industrial Micro		DIE Revision for	S-40 Industrial S	D Memory Cards and
☐ minor / 🏻 ma	ajor				
etailed descript	ion of change:				
	•	form you that the	Toshiba MLC 19	nm process is go	ing EOL and will be replace
LC A19nm proce		nrink Swisshit is	introducing a	new generation	(Generation 2) of the S-4
	ıd S-40µ Micro SD Memo		incroducing a	new generation	(deficiation 2) of the 3 4
=	·	-	5μ Micro SD Me	emory Card with	UHS-I support is planned
1.10.2015.					
roduct Family Co	omparison:				
,	S-40 Generation 1	S-40 Generation	on 2 S-4	5	Comment
Interface	SD 3.0	SD 3.0		3.0 UHS-I	
NAND Flash	Toshiba 19nm MLC	Toshiba A19nm	MLC Tosi	hiba A19nm MLC	
MCU	S8	\$8	\$8		UHS-I support for S-45
FW	Ver 1	Ver 2	Ver	Α	Improved SD host
			(ne	w architecture)	compatibility for Ver 2
					and Ver A
PCB	Version 1,	Changed for DI		nged for DIE	Adaption for new DIE
	contacts >0.5µm	assembly, cont		embly, contacts	sizes and pad layout,
	hard gold	>0.8µm hard g	gold >0.	8µm hard gold	improved contacts
Package	Dam & Fill (SD),	Molding	Mol	ding	Changed packaging for
	Molding (uSD)				inlay. Now all products
					are molded.
Bond wire	AU 17.5μm	AU 20μm	AU 2	20µm	Improved wire stability,
Performance	Cf. data sheet	Same or better	Sam	ne or better	same wire material
vertormance	ci. data siicct	Julie of Detter		ting 01.01.2015	

NAND Flash DIE end of life by flash supplier

Reason for change:

 \boxtimes minor / \square major / \square no Improved production process



Product Notification Form

Series	Current EOL Part Number (S-40 Gen 1, non UHS)	New backward compatible Part (S-40 Gen 2, non UHS)	Preferred UHS-I Part Number (S-45, UHS-I)
S-40 SD	SFSDxxxxL1BM1T0-t-xx-111-xxx	SFSDxxxxL2BM1T0-t-xx-121-xxx	SFSDxxxxL2BM1T0-t-xx-2A1-xxx
S-40u Micro SD	SFSDxxxxN1BM1T0-t-xx-111-xxx	SFSDxxxxN 2 BM1T0-t-xx- 121 -xxx	SFSDxxxxN2BM1T0-t-xx-2A1-xxx

Product	Current EOL Part Number	New backward compatible Part	Preferred UHS-I Part Number
Description	(S-40 Gen 1, non UHS)	(S-40 Gen 2, non UHS)	(S-45, UHS-I)
C 1.0 CD 1.CD	SFSD4096L1BM1T0-E-GE-111-STD	SFSD4096L2BM1T0-E-GE-121-STD	SFSD4096L2BM1T0-E-GE-2A1-STD
S-40 SD 4GB	SFSD4096L1BM1T0-I-GE-111-STD	SFSD4096L2BM1T0-I-GE-121-STD	SFSD4096L2BM1T0-I-GE-2A1-STD
C 10 CD 0CD	SFSD8192L1BM1T0-E-GE-111-STD	SFSD8192L2BM1T0-E-GE-121-STD	SFSD8192L2BM1TO-E-GE-2A1-STD
S-40 SD 8GB	SFSD8192L1BM1T0-I-GE-111-STD	SFSD8192L2BM1TO-I-GE-121-STD	SFSD8192L2BM1TO-I-GE-2A1-STD
C 10 CD 16 CD	SFSD016GL1BM1T0-E-LF-111-STD	SFSD016GL2BM1T0-E-GE-121-STD	SFSD016GL2BM1T0-E-GE-2A1-STD
S-40 SD 16GB	SFSD016GL1BM1T0-I-LF-111-STD	SFSD016GL2BM1T0-I-GE-121-STD	SFSD016GL2BM1T0-I-GE-2A1-STD
C 40 CD 22CD	n/a	SFSD032GL2BM1T0-E-LF-121-STD	SFSD032GL2BM1T0-E-LF-2A1-STD
S-40 SD 32GB	n/a	SFSD032GL2BM1T0-I-LF-121-STD	SFSD032GL2BM1T0-I-LF-2A1-STD
S-40u	SFSD4096N1BM1T0-E-GE-111-STD	SFSD4096N2BM1T0-E-GE-121-STD	SFSD4096N2BM1T0-E-GE-2A1-STD
Micro SD 4GB	SFSD4096N1BM1TO-I-GE-111-STD	SFSD4096N2BM1T0-I-GE-121-STD	SFSD4096N2BM1TO-I-GE-2A1-STD
S-40u	SFSD8192N1BM1TO-E-LF-111-STD	SFSD8192N2BM1TO-E-LF-121-STD	SFSD8192N2BM1TO-E-LF-2A1-STD
Micro SD 8GB	SFSD8192N1BM1TO-I-LF-111-STD	SFSD8192N2BM1TO-I-LF-121-STD	SFSD8192N2BM1T0-I-LF-2A1-STD
S-40u	SFSD016GN1BM1T0-E-HG-111-STD	SFSD016GN2BM1T0-E-HG-121-STD	SFSD016GN2BM1TO-E-HG-2A1-STD
Micro SD 16GB	SFSD016GN1BM1T0-I-HG-111-STD	SFSD016GN2BM1T0-I-HG-121-STD	SFSD016GN2BM1TO-I-HG-2A1-STD

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

Implementation date: S-40(u) Gen. 2: Samples available now, limited stock of EOL S-40 Generation 1

S-45(u): Starting 01.10.2015, please contact your sales agent for details

Forecasted Milestones:

Milestone	Date
Qualification Camples availability	S-40 Gen2: Now
Qualification Samples availability	S-45: Q3/2015
Last Time Buy - LTB	July 30, 2015*
Last Time Shipment – LTS	October 30, 2015*

^{*)} Subject to limited stock

Recommended Action: Qualification of new product, transition as soon as possible.

Reference Documents / Attachments: N/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.

Contacts	Name	Email
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Product Notification Form

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 apology for any inconvenience caused.

Products affected:

SAP#	Part number
604412	SFSD4096L1BM1T0-E-GE-111-STD
604589	SFSD4096L1BM1T0-I-GE-111-STD
604415	SFSD8192L1BM1TO-E-GE-111-STD
604591	SFSD8192L1BM1TO-I-GE-111-STD
604413	SFSD016GL1BM1T0-E-LF-111-STD
604584	SFSD016GL1BM1TO-I-LF-111-STD
604587	SFSD032GL1BM1T0-E-HG-111-STD
604588	SFSD032GL1BM1T0-I-HG-111-STD
604414	SFSD4096N1BM1TO-E-GE-111-STD
604590	SFSD4096N1BM1TO-I-GE-111-STD
604417	SFSD8192N1BM1TO-E-LF-111-STD
604592	SFSD8192N1BM1TO-I-LF-111-STD
604585	SFSD016GN1BM1T0-E-HG-111-STD
604586	SFSD016GN1BM1T0-I-HG-111-STD
604650	SFSD4096L1BM1T0-I-GE-111-0EM
604649	SFSD8192L1BM1TO-I-GE-111-0EM
604648	SFSD016GL1BM1T0-I-LF-111-0EM
604647	SFSD032GL1BM1T0-I-HG-111-0EM