



## Product Change Notice (SDM5A-M Flash Transition from Toshiba A19nm to 15nm)

Dear Valued Customers,

Apacer hereby announces the Product Change Notice of SDM5A-M series products, as a result of reacting to the End of Life of Toshiba MLC A19nm 32Gb, 64Gb, 128Gb, 256Gb NAND flash. The alternative flash are Toshiba MLC 15nm 32Gb, 64Gb, 128Gb, 256Gb NAND flash. Those new flash have passed all validations and qualification tests with no function or compatibility issue. Please refer to below PCN table for details.

<b>PCN Number:</b>	E151231-09	<b>Release Date:</b>	12/31/2015
<b>Affected Product Model</b>	SDM5A-M		
<b>Subject :</b>			
SDM5A-M Flash Transition from Toshiba A19nm to 15nm			
<b>Description of Change:</b>			
1. To react the End of Life of Toshiba MLC A19nm 32Gb, 64Gb, 128Gb, 256Gb NAND flash, affected products have applied Toshiba 15nm 32Gb, 64Gb, 128Gb, 256Gb flash ID and passed the verification and qualification with no function and compatibility issues.			
<b>Recommended Action :</b>			
For long-term supply and cost perspective, Apacer recommends customers to qualify Toshiba 15nm MLC flash in a timely manner.			
<b>Description of Product Part Number Change:</b>			
The new part numbers are listed here			
<b>Operating Temperature (0°C ~ 70°C)</b>			
7P/90 LP Existing (A19)		7P/90 LP New (15nm)	
Without Housing	With Housing	Without Housing	With Housing
APSDM004GD2AN-ATM	APSDM004GE2AN-ATM	APSDM004GD2AN-CTM1	APSDM004GE2AN-CTM1
APSDM008GD2AN-ATM	APSDM008GE2AN-ATM	APSDM008GD2AN-CTM1	APSDM008GE2AN-CTM1
APSDM016GD2AN-ATM	APSDM016GE2AN-ATM	APSDM016GD2AN-CTM1	APSDM016GE2AN-CTM1
APSDM032GD2AN-ATM	APSDM032GE2AN-ATM	APSDM032GD2AN-CTM1	APSDM032GE2AN-CTM1
7P/90 Slim2 Existing (A19)	7P/90 Slim2 New (15nm)		
APSDM004GV2AN-ATM	APSDM004GV2AN-CTM1		
APSDM008GV2AN-ATM	APSDM008GV2AN-CTM1		
APSDM016GV2AN-ATM	APSDM016GV2AN-CTM1		
APSDM032GV2AN-ATM	APSDM032GV2AN-CTM1		

7P/90 LP2 Existing (A19)		7P/90 LP2 New (15nm)	
Without WP	With WP	Without WP	With WP
APSDM016GH2AN-ATMG	APSDM016GH2WN-ATMG	APSDM016GH2AN-CTM1G	APSDM016GH2WN-CTM1G
APSDM032GH2AN-ATMG	APSDM032GH2WN-ATMG	APSDM032GH2AN-CTM1G	APSDM032GH2WN-CTM1G
APSDM064GH2AN-ATMG	APSDM064GH2WN-ATMG	APSDM064GH2AN-CTM1G	APSDM064GH2WN-CTM1G

7P/90 MP2 Existing (A19)	7P/90 MP2 New (15nm)
APSDM008GQ2AN-ATM	APSDM008GQ2AN-CTM1
APSDM016GQ2AN-ATM	APSDM016GQ2AN-CTM1
APSDM032GQ2AN-ATM	APSDM032GQ2AN-CTM1
APSDM064GQ2AN-ATM	APSDM064GQ2AN-CTM1

7P/180 LP Existing (A19)		7P/180 LP New (15nm)	
Without Housing	With Housing	Without Housing	With Housing
APSDM004GA2AN-ATM	APSDM004GB2AN-ATM	APSDM004GA2AN-CTM1	APSDM004GB2AN-CTM1
APSDM008GA2AN-ATM	APSDM008GB2AN-ATM	APSDM008GA2AN-CTM1	APSDM008GB2AN-CTM1
APSDM016GA2AN-ATM	APSDM016GB2AN-ATM	APSDM016GA2AN-CTM1	APSDM016GB2AN-CTM1
APSDM032GA2AN-ATM	APSDM032GB2AN-ATM	APSDM032GA2AN-CTM1	APSDM032GB2AN-CTM1

7P/180 LP Existing (A19 BGA)		7P/180 LP New (15nm BGA)	
Without Housing	With Housing	Without Housing	With Housing
APSDM016GA2AN-ATMG	APSDM016GB2AN-ATMG	APSDM016GA2AN-CTM1G	APSDM016GB2AN-CTM1G
APSDM032GA2AN-ATMG	APSDM032GB2AN-ATMG	APSDM032GA2AN-CTM1G	APSDM032GB2AN-CTM1G
APSDM064GA2AN-ATMG	APSDM064GB2AN-ATMG	APSDM064GA2AN-CTM1G	APSDM064GB2AN-CTM1G

7P/180 Slim2 Existing (A19)		7P/180 Slim2 New (15nm)	
Without Housing	With Housing	Without Housing	With Housing
APSDM004GK2AN-ATM	APSDM004GS2AN-ATM	APSDM004GK2AN-CTM1	APSDM004GS2AN-CTM1
APSDM008GK2AN-ATM	APSDM008GS2AN-ATM	APSDM008GK2AN-CTM1	APSDM008GS2AN-CTM1
APSDM016GK2AN-ATM	APSDM016GS2AN-ATM	APSDM016GK2AN-CTM1	APSDM016GS2AN-CTM1
APSDM032GK2AN-ATM	APSDM032GS2AN-ATM	APSDM032GK2AN-CTM1	APSDM032GS2AN-CTM1

7P/180 LP2 Existing (A19)		7P/180 LP2 New (15nm)	
Without WP	With WP	Without WP	With WP
APSDM016GL2AN-ATMG	APSDM016GL2WN-ATMG	APSDM016GL2AN-CTM1G	APSDM016GL2WN-CTM1G
APSDM032GL2AN-ATMG	APSDM032GL2WN-ATMG	APSDM032GL2AN-CTM1G	APSDM032GL2WN-CTM1G
APSDM064GL2AN-ATMG	APSDM064GL2WN-ATMG	APSDM064GL2AN-CTM1G	APSDM064GL2WN-CTM1G

7P/270 Slim2 Existing (A19)	7P/270 Slim2 New (15nm)
APSDM004GU2AN-ATM	APSDM004GU2AN-CTM1
APSDM008GU2AN-ATM	APSDM008GU2AN-CTM1
APSDM016GU2AN-ATM	APSDM016GU2AN-CTM1
APSDM032GU2AN-ATM	APSDM032GU2AN-CTM1

**Operating Temperature (-40°C ~ 85°C)**

7P/90 LP Existing (A19)		7P/90 LP New (15nm)	
Without Housing	With Housing	Without Housing	With Housing
APSDM004GD2AN-ATMW	APSDM004GE2AN-ATMW	APSDM004GD2AN-CTM1W	APSDM004GE2AN-CTM1W
APSDM008GD2AN-ATMW	APSDM008GE2AN-ATMW	APSDM008GD2AN-CTM1W	APSDM008GE2AN-CTM1W
APSDM016GD2AN-ATMW	APSDM016GE2AN-ATMW	APSDM016GD2AN-CTM1W	APSDM016GE2AN-CTM1W
APSDM032GD2AN-ATMW	APSDM032GE2AN-ATMW	APSDM032GD2AN-CTM1W	APSDM032GE2AN-CTM1W

7P/90 Slim2 Existing (A19)	7P/90 Slim2 New (15nm)
APSDM004GV2AN-ATMW	APSDM004GV2AN-CTM1W
APSDM008GV2AN-ATMW	APSDM008GV2AN-CTM1W
APSDM016GV2AN-ATMW	APSDM016GV2AN-CTM1W
APSDM032GV2AN-ATMW	APSDM032GV2AN-CTM1W

7P/90 LP2 Existing (A19)		7P/90 LP2 New (15nm)	
Without WP	With WP	Without WP	With WP
APSDM016GH2AN-ATMGW	APSDM016GH2WN-ATMGW	APSDM016GH2AN-CTM1GW	APSDM016GH2WN-CTM1GW
APSDM032GH2AN-ATMGW	APSDM032GH2WN-ATMGW	APSDM032GH2AN-CTM1GW	APSDM032GH2WN-CTM1GW
APSDM064GH2AN-ATMGW	APSDM064GH2WN-ATMGW	APSDM064GH2AN-CTM1GW	APSDM064GH2WN-CTM1GW

7P/90 MP2 Existing (A19)	7P/90 MP2 New (15nm)
APSDM008GQ2AN-ATMW	APSDM008GQ2AN-CTM1W
APSDM016GQ2AN-ATMW	APSDM016GQ2AN-CTM1W
APSDM032GQ2AN-ATMW	APSDM032GQ2AN-CTM1W
APSDM064GQ2AN-ATMW	APSDM064GQ2AN-CTM1W

7P/180 LP Existing (A19)		7P/180 LP New (15nm)	
Without Housing	With Housing	Without Housing	With Housing
APSDM004GA2AN-ATMW	APSDM004GB2AN-ATMW	APSDM004GA2AN-CTM1W	APSDM004GB2AN-CTM1W
APSDM008GA2AN-ATMW	APSDM008GB2AN-ATMW	APSDM008GA2AN-CTM1W	APSDM008GB2AN-CTM1W
APSDM016GA2AN-ATMW	APSDM016GB2AN-ATMW	APSDM016GA2AN-CTM1W	APSDM016GB2AN-CTM1W
APSDM032GA2AN-ATMW	APSDM032GB2AN-ATMW	APSDM032GA2AN-CTM1W	APSDM032GB2AN-CTM1W



7P/180 LP Existing (A19 BGA)		7P/180 LP New (15nm BGA)	
Without Housing	With Housing	Without Housing	With Housing
APSDM016GA2AN-ATMGW	APSDM016GB2AN-ATMGW	APSDM016GA2AN-CTM1GW	APSDM016GB2AN-CTM1GW
APSDM032GA2AN-ATMGW	APSDM032GB2AN-ATMGW	APSDM032GA2AN-CTM1GW	APSDM032GB2AN-CTM1GW
APSDM064GA2AN-ATMGW	APSDM064GB2AN-ATMGW	APSDM064GA2AN-CTM1GW	APSDM064GB2AN-CTM1GW

7P/180 Slim2 Existing (A19)		7P/180 Slim2 New (15nm)	
Without Housing	With Housing	Without Housing	With Housing
APSDM004GK2AN-ATMW	APSDM004GS2AN-ATMW	APSDM004GK2AN-CTM1W	APSDM004GS2AN-CTM1W
APSDM008GK2AN-ATMW	APSDM008GS2AN-ATMW	APSDM008GK2AN-CTM1W	APSDM008GS2AN-CTM1W
APSDM016GK2AN-ATMW	APSDM016GS2AN-ATMW	APSDM016GK2AN-CTM1W	APSDM016GS2AN-CTM1W
APSDM032GK2AN-ATMW	APSDM032GS2AN-ATMW	APSDM032GK2AN-CTM1W	APSDM032GS2AN-CTM1W

7P/180 LP2 Existing (A19)		7P/180 LP2 New (15nm)	
Without WP	With WP	Without WP	With WP
APSDM016GL2AN-ATMGW	APSDM016GL2WN-ATMGW	APSDM016GL2AN-CTM1GW	APSDM016GL2WN-CTM1GW
APSDM032GL2AN-ATMGW	APSDM032GL2WN-ATMGW	APSDM032GL2AN-CTM1GW	APSDM032GL2WN-CTM1GW
APSDM064GL2AN-ATMGW	APSDM064GL2WN-ATMGW	APSDM064GL2AN-CTM1GW	APSDM064GL2WN-CTM1GW

7P/270 Slim2 Existing (A19)	7P/270 Slim2 New (15nm)
APSDM004GU2AN-ATMW	APSDM004GU2AN-CTM1W
APSDM008GU2AN-ATMW	APSDM008GU2AN-CTM1W
APSDM016GU2AN-ATMW	APSDM016GU2AN-CTM1W
APSDM032GU2AN-ATMW	APSDM032GU2AN-CTM1W

**Schedule:**

15nm Sample Available Date: 01/30/2016  
 Non-Cancelable & Non-Returnable Last Buy Order: 03/23/2016  
 Last Time Buy Shipment Date: 06/30/2016

Apacer would provide every necessary supports to ensure a smooth transition. If you have any questions and concerns with the content of this notice, please contact with Apacer sales representatives.

**Embedded Application Product Division**  
**Apacer Technology Inc.**